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CATALOGUE

1888-89.

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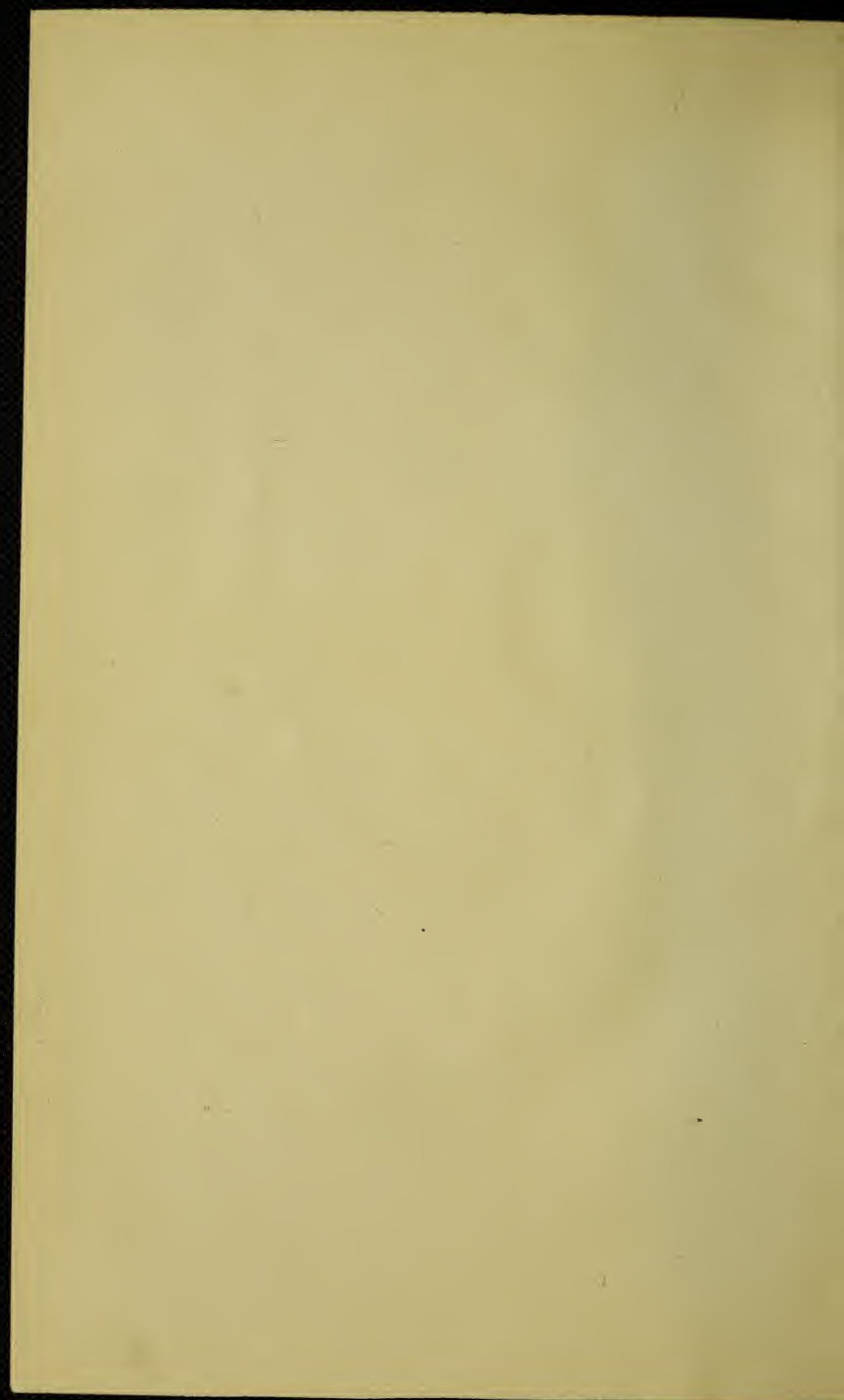
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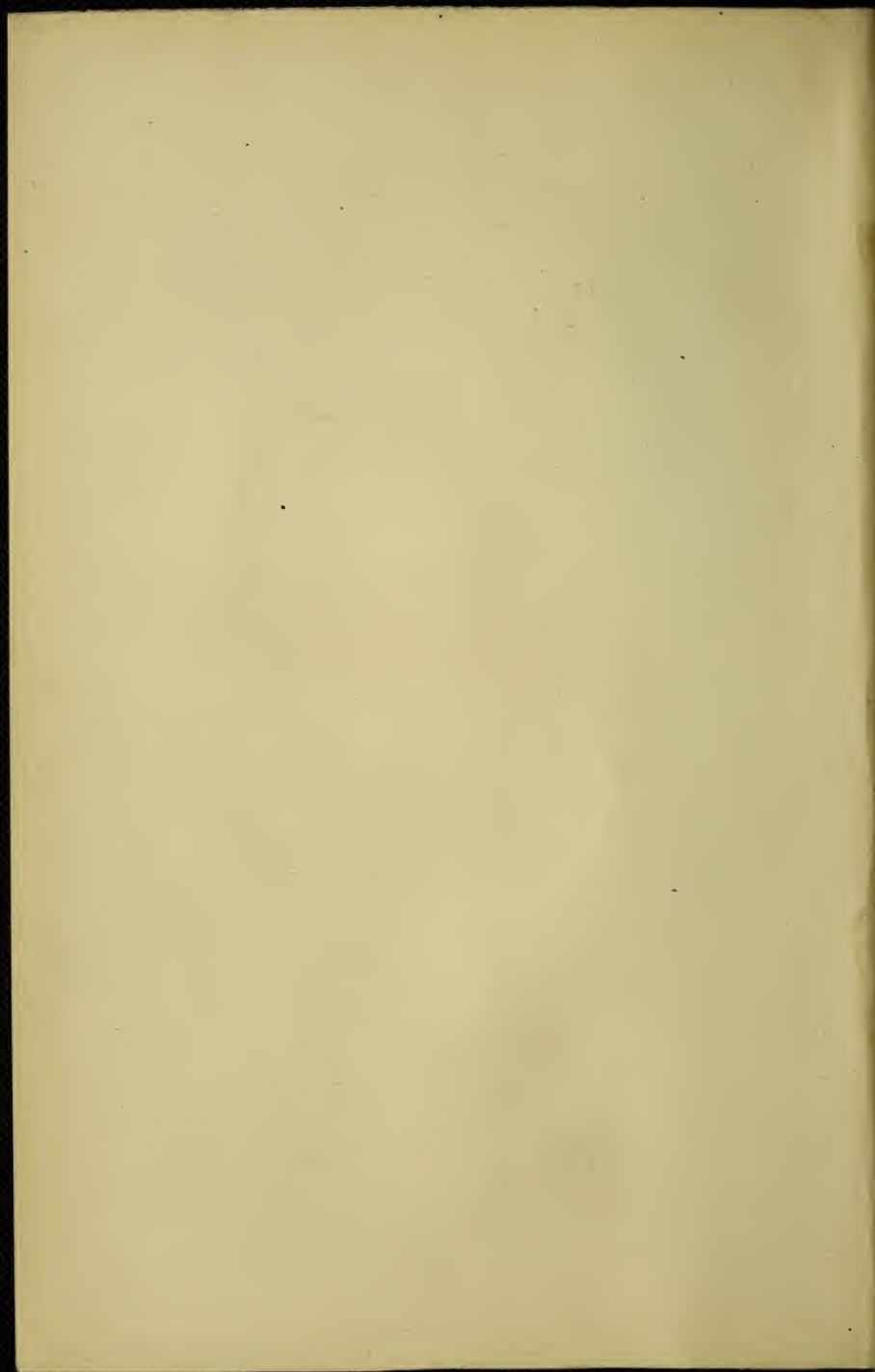
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UNIVERSITY OF NEBRASKA

CATALOGUE

1888-89.



LINCOLN, NEB.:
PUBLISHED BY THE UNIVERSITY.
1889.

ERRATA.

Among the errors which are likely to be misleading are the following:

On p. 44, in the Elective Course in Botany, add

SENIOR YEAR.

Botany V. VI. VII. or VIII. (including Thesis.)—(Nine hours.)

Rhetoric.—One oration each term.

Military Science.—(One hour.)

Electives.—(Six hours.)

On p. 48, Philosophy IV. should read "History of Philosophy."

On p. 53, Zoology V. should read "Comparative Histology of Vertebrates."

On p. 61, the Electives in the Senior Year of the Scientific Course should be 6.

On p. 68, the second word of the fifth line from below should be Rusts.

On p. 72, the second and third paragraphs should constitute one sentence.

On p. 73, in the twelfth line from below—LABORATORY.

On p. 73, in the fourth line from below—collections.

On p. 74, in the twenty-first line from below, third word—General.

On p. 79, in the sixth line from below—MATRICULATION.

On p. 80, in the twelfth line from above—Stationery.

On p. 80, in the fifth line from below, fourth word—twenty-five.

We desire to enter our protest against the action of the Twenty-First Legislature which requires the University to let the printing of its Catalogue to the lowest bidder. The general appearance of this publication, and the numerous errors upon its pages, are a sufficient proof of the false economy of the law.

CHARLES E. BESSEY,	}	COMMITTEE
L. A. SHERMAN,		ON
J. S. DALES,		CATALOGUE.

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JANUARY

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ANNOUNCEMENTS FOR 1889-90.

1889.

April 1, THIRD TERM begins.

May 25, Close of Senior Examinations.

May 31 to June 3, Annual Encampment of University Cadets.

June 3-8, Term Examinations.

June 6, Exhibition of the Philodicean Society.

June 7, Exhibition of the Palladian Society.

June 8, Exhibition of the Union Society.

June 9, Baccalaureate Address.

June 10, Exhibition of the Delian Society.

June 11, (A. M.), Class Day Exercises.

June 11, (P. M.), Alumni Reunion.

June 11, (Evening), Commencement Concert.

June 12, COMMENCEMENT.

SUMMER VACATION BEGINS.

June 13-14, Examinations for Admission.

September 17-18, Examinations for Admission.

September 18, FIRST TERM begins.

December 24, FIRST TERM ends.

1890.

January 2, SECOND TERM begins.

February 15, CHARTER DAY.

March 21, SECOND TERM ends.

March 31, THIRD TERM begins.

June 11, COMMENCEMENT.

BOARD OF REGENTS.

HON. CHAS. H. GERE, <i>President.</i>	Lincoln,	Term expires January 1892.
HON. MILTON J. HULL,	Edgar,	Term expires January 1890.
HON. JOHN T. MALLALIEU,	Kearney,	Term expires January 1890.
HON. LEAVITT BURNHAM,	Omaha,	Term expires January 1892.
HON. BYRON B. DAVIS,	McCook,	Term expires January 1894.
HON. GEORGE ROBERTS,	Creighton,	Term expires January 1894.

J. STUART DALES, <i>Secretary and Steward.</i>	Lincoln.	
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THE FACULTY AND OTHER OFFICERS.

- CHARLES E. BESSEY, PH.D.,
ACTING CHANCELLOR and Professor of Botany and Horticulture
 1634 H st.
- HENRY E. HITCHCOCK, PH.D.,
Professor of Mathematics
 (Room 15) 511 N. 16th st.
- GEORGE McMILLAN, PH.D.,
Professor of Greek
 (Room 14) 1503 H st.
- AUGUST HJALMAR EDGREN, PH.D.,
Professor of Modern Languages and Sanskrit
 (Room 2) 1446 Q st.
- LEWIS E. HICKS, PH.D.,
Professor of Geology and Allied Sciences
 (Room 4) 1809 P st.
- GROVE E. BARBER, M.A.,
Professor of Latin
 (Room 13) 1806 D st.
- LUCIUS A. SHERMAN, PH.D.,
Professor of English Literature
 (Room 25) 1138 T st.
- GEORGE E. HOWARD, M.A.,
Professor of History
 (Room 20) 1504 S st.
- HUDSON H. NICHOLSON, M.A.,
*Professor of Chemistry and Director of the
 Chemical Laboratory*
 Chem. Lab. (Room 10) 1927 G st.
- JOHN S. KINGSLEY, D.SC.,
Professor-elect of Agriculture and Biology
- DEWITT B. BRACE, PH.D.,
Professor of Physics
 (Chem. Lab.) 1828 F street.
- THOMAS W. GRIFFITH, 2nd Lieut. 18th U. S. Infantry,
Professor of Military Science and Tactics
 (Grant Hall) 1235 K street.
- CHARLES N. LITTLE, PH.D.,
Associate Professor of Civil Engineering
 (Room 28) 743 S 13th street.
- RACHEL LLOYD, PH.D.,
Associate Professor of Analytical Chemistry
 (Chem. Lab. Room 4) 445 N. 13th street.

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HON. CHAS. H. GERE, <i>President.</i>	Lincoln,	Term expires January 1892.
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HON. JOHN T. MALLALIEU,	Kearney,	Term expires January 1890.
HON. LEAVITT BURNHAM,	Omaha,	Term expires January 1892.
HON. BYRON B. DAVIS,	McCook,	Term expires January 1894.
HON. GEORGE ROBERTS,	Creighton,	Term expires January 1894.

J. STUART DALES, <i>Secretary and Steward.</i>	Lincoln.	
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 (Room 2) 1446 Q st.
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 (Room 4) 1309 P st.
- GROVE E. BARBER, M.A.,
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 (Room 13) 1806 D st.
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Associate Professor of Civil Engineering
 (Room 28) 743 S 13th street.
- RACHEL LLOYD, PH.D.,
Associate Professor of Analytical Chemistry
 (Chem. Lab. Room 4) 445 N. 13th street.

- CHARLES E. BENNETT, B.A.,
*Principal of the Latin School, and Instructor in
Latin and Greek* (Room 3) 1522 S street.
- HOWARD W. CALDWELL, B.PH.,
Adjunct Professor of History (Room 17) 24⁹⁰ Lynn street.
- EBENEZER W. HUNT, B.A.,
Adjunct Professor of Rhetoric and Oratory (Room 4) Zehrunge Block.
- HON. ROBERT FURNAS,
Lecturer on Forestry Brownville.
- AMOS G. WARNER, PH.D.,
Lecturer on Political Science (Room 20) 1534 Poplar street.
- HARRY K. WOLFE, PH.D.,
Lecturer on Philosophy (Room 14) 1337 O street.
- SARAH WOOL MOORE,
*Teacher of Painting and Drawing, and Lecturer on
the History of Art* (Rooms 12, 21) 1730 D street.
- T. MOREY HODGMAN, B.A.,
Instructor in Mathematics (Room 5) 641 N. 16th street.
- ERMINA D. COCHRAN, M.A.,
Teacher of Piano, Organ and Voice Culture (Room 40) Ledwith House.
- JOSEPH A. FONTAINE, PH.D.,
Instructor in Modern Languages and Latin (Room 26) 1446 Q street.
- VERNON J. EMERY, B.A.,
Instructor in Latin (Room 1) 1522 S street.
- BOHUMIL SHIMEK, C.E.,
Instructor in Zoology (Room 12) 1330 D street.
- ELTON FULMER, B.SC.,
Assistant in Chemical Laboratory Chemical Laboratory.
- ROSCOE POUND, B.A.,
Assistant in Botanical Laboratory 1542 P street.
- GUSTAVE C. MENZENDORF (Leipzig),
Teacher of the Violin, Harmony and Counterpoint 1040 Q street.
- J. STUART DALES, ESQ., *Steward* (Room 6) 1242 P street.
- ELLEN SMITH, M.A., *Registrar and Custodian of the Library* (Room 16) 1204 U street.
- J. D. COURTNEY, *Foreman of the College Farm* College Farm.

GRADUATE STUDENTS.

JAY AMOS BARRETT, B. A., University of Nebraska, 1888.	}	<i>Lincoln</i>	1011 Q st.
SARAH KYLE DALEY, B. L., University of Nebraska, 1887.	}	<i>Omaha</i>	1301 N st.
ELTON FULMER, B. SC., University of Nebraska, 1887.	}	<i>Gibbon</i>	Chem. Lab.
CHARLES SUMNER LOBINGIER, B. A., University of Nebraska, 1888.	}	<i>Loveland, Col.</i>	Capitol.
ROSCOE NATHAN POUND, B. A., University of Nebraska, 1888.	}	<i>Lincoln</i>	1542 P st.
JARED GAGE SMITH, B. SC., University of Nebraska, 1888.	}	<i>Lincoln</i>	1303 S. 17th st.
FLORA FROST SNELL, B. SC., University of Nebraska, 1884.	}	<i>Lincoln</i>	Cor. 33d and Randolph sts
NOVIA ZEMBLA SNELL, B. SC., University of Nebraska, 1882.	}	<i>Lincoln</i>	Cor. 33d and Randolph sts.
MARY ADELL TREEMAN, B. SC., University of Nebraska, 1881.	}	<i>Lincoln</i>	1318 R st.
		GRADUATE STUDENTS, 9.	

ACADEMIC COLLEGE.

(College of Literature, Science, and the Arts.)

FACULTY AND OTHER INSTRUCTORS.

- CHARLES E. BESSEY, PH.D., *Botany*, DEAN.
HENRY E. HITCHCOCK, PH.D., *Mathematics*.
GEORGE McMILLAN, PH.D., *Greek*.
GEORGE E. HOWARD, M.A., *History*.
GROVE E. BARBER, M.A., *Latin*.
HUDSON H. NICHOLSON, M.A., *Chemistry*.
LUCIUS A. SHERMAN, PH.D., *English Literature*.
LEWIS E. HICKS, PH.D., *Geology and Allied Sciences*.
THOMAS W. GRIFFITH, U.S.A., *Military Science and Tactics*.
AUGUST H. EDGREN, PH.D., *Modern Languages and Sanskrit*.
DEWITT B. BRACE, PH.D., *Physics*.
RACHEL LLOYD, PH.D., *Analytical Chemistry*.
HOWARD W. CALDWELL, B.Ph., *History*.
CHARLES E. BENNETT, B.A., *Greek and Latin*.
SARAH WOOL MOORE, *History of Art*.
EBENEZER W. HUNT, B.A., *Rhetoric and Oratory*.
JOSEPH A. FONTAINE, PH.D., *Romance Languages*.
AMOS G. WARNER, PH.D., *Political and Economic Science*.
HARRY K. WOLFE, PH.D., *Philosophy*.

UNDERGRADUATE STUDENTS.

SENIORS.

Thomas Stinson Allen, LIT.	<i>Wabash</i>	1453 U st.
George Henry Baughman, LIT.	<i>Lincoln</i>	2630 R st.
Charles Wesley Bigelow, LIT.	<i>Bartlett</i>	527 N. 13th st.
Jennie Constance Bonnell, LIT.	<i>Lincoln</i>	2345 R st.
Edna Dean Bullock, LIT.	<i>Lincoln</i>	1441 U st.
Reuben David Church, LIT.	<i>Peru</i>	1347 S st.
Myra Elizabeth Clark, LIT.	<i>Sutton</i>	1512 R st.
Frederic William Collins, CL.	<i>Fairfield</i>	511 N. 16th st.
Orien Wesley Fifer, LIT.	<i>Lincoln</i>	1600 Washington st.
William Nelson Fletcher, LIT.	<i>Alliance</i>	441 N. 16th st.
David Dryden Forsyth, LIT.	<i>New Helena</i>	1504 S st.
Charles Marion French, LIT.	<i>Rulo</i>	1228 Q st.
George William Gerwig, CL.	<i>Alleghany City, Pa.</i>	4 State blk.
Laura Augusta Haggard, CL.	<i>Lincoln</i>	1320 G st.
Charles Berry Newcomer, CL.	<i>Falls City</i>	4 State blk.
Alfred Pizey, LIT.	<i>Dakota City</i>	1452 U st.
William Wade Robertson, LIT.	<i>Ashland</i>	516 N. 12th st.
William Logan Stephens, CL.	<i>Sutton</i>	4 State blk.
May Tower, LIT.	<i>Lincoln</i>	307 N. 24th st.

SENIORS, 19.

JUNIORS.

Clark Fisher Ansley, CL.	<i>Seward</i> , Ill.	1138 T st.
Annie Christine Childe, CL.	<i>Lincoln</i>	1041 H st.
Edwin Farmer, CL.	<i>Albion</i>	1347 S st.
Edward Ellsworth Gillespie, LIT.	<i>Lincoln</i>	1630 G st.
Walter Bishop Graham, LIT.	<i>Seward</i>	445 N. 13th st.
Thomas Lee Hall, LIT.	<i>Verdon</i>	1505 S st.
George Oscar Hearn, CL.	<i>Lincoln</i>	659 S. 18th st.
Harry King Heffleman, LIT.	<i>Grand Island</i>	334 N. 17th st.
Ernest Raymond Holmes, LIT.	<i>Kearney</i>	1446 Q st.
Hugh La Master, LIT.	<i>Tecumseh</i>	1428 K st.
Stephen Clark Langworthy, LIT.	<i>Seward</i>	445 N. 13th st.
Gertrude Hardenburg Laws, CL.	<i>Lincoln</i>	1108 H st.
Dena Kate Loomis, LIT.	<i>Lincoln</i>	1704 R st.
Rachel Emerah Manley, CL.	<i>Lincoln</i>	1101 D st.
Wilson Jay Marsh, CL.	<i>Lincoln</i>	419 N. 27th st.
Edith Theodora Mockett, LIT.	<i>Lincoln</i>	535 N. 16th st.
Sara Schwab, CL.	<i>Lincoln</i>	Cor. 16th and L sts.
Frank Collins Taylor, CL.	<i>Linwood</i>	2400 Lynn ave.
Jessie Benton Wolfe, CL.	<i>Lincoln</i>	1436 S st.
Frank Henry Woods, LIT.	<i>Lincoln</i>	Cor. 26th and J sts.

JUNIORS, 20.

SOPHOMORES.

Ida Bonnell, LIT.	<i>Lincoln</i>	2345 R st.
Lucy Cornelia Braun, LIT.	<i>Sutton</i>	334 N. 17th st.
Edward Provost Brown, LIT.	<i>Lincoln</i>	221 S. 27th st.
William Talmage Brown, CL.	<i>Wyoming</i>	621 N. 16th st.
Daniel Wesley Bush, LIT.	<i>Lincoln</i>	1500 S. st.
* Henry Rolette Cooley, CL.	<i>Potter</i>	Cor. VanDorn and 9th sts.
Albert Alfred Faurot, LIT.	<i>Rising City</i>	2847 T st.
Clarence Conrad Fletcher, CL.	<i>Lincoln</i>	811 G st.
John Bernard Fogarty, CL.	<i>Gretna</i>	430 N. 14th st.
Charles Buckingham Gregory, CL.	<i>Lincoln</i>	1230 L st.
James Warren McCrosky, LIT.	<i>Tecumseh</i>	1346 S st.
Norman Widaman Peters, LIT.	<i>Albion</i>	1346 S st.
Norris Plumb, CL.	<i>Rulo</i>	1228 Q st.
Henry Allen Reese, LIT.	<i>Wahoo</i>	Lindell Hotel.
Charles Daniel Schell, CL.	<i>Beatrice</i>	712 N. 16th st.
William James Taylor, CL.	<i>Lincoln</i>	1730 E st.
Katharine Weston, LIT.	<i>Beatrice</i>	1226 J st.
William Herbert Wheeler, LIT.	<i>Omaha</i>	Room 5 King blk.
Elinor Louise Williams, CL.	<i>Lincoln</i>	1332 K st.
Richard Owen Williams, CL.	<i>Lincoln</i>	1332 K st.

SOPHOMORES, 20.

* Deceased.

FRESHMEN.

Charlotte Huntington Andrus, LIT.	<i>Lincoln</i>	1709 E st.
Clarence Avery, LIT.	<i>Edgar</i>	1228 Q st.
Frank Elmer Bishop, LIT.	<i>Lincoln</i>	1646 P st.
William Ellsworth Brook, LIT.	<i>Ashland</i>	495 N. 13th st.
Thomas Edward Chappell, LIT.	<i>Neligh</i>	1332 J st.
Horace Clason, CL.	<i>Lincoln</i>	995 C st.
Carrie Clifton Dennis, LIT.	<i>Rockford, Mass.</i>	Cor 20th and F sts.
Minerva Harvey De Pue, LIT.	<i>Lincoln</i>	1327 M st.
William Connor Dorsey, CL.	<i>Beatrice</i>	1504 S st.
Homer James Edmiston, CL.	<i>Lincoln</i>	457 N. 25th st.
Anna Eliza Edwards, CL.	<i>Lincoln</i>	530 N. 12th st.
Elizabeth Content Field, LIT.	<i>Lincoln</i>	2410 Q st.
Maggie Foulke, LIT.	<i>Agency, Ia.</i>	1458 U st.
Charles Haft, LIT.	<i>Rapid City, Dak.</i>	429 N. 13th st.
Emory Charles Hardy, LIT.	<i>Lincoln</i>	1825 M st.
Eleanor Martha Hiltner, CL.	<i>Lincoln</i>	1301 N st.
Mary Billings Holmes, LIT.	<i>Tecumseh</i>	1136 T st.
Edna Elizabeth Hyatt, LIT.	<i>Lincoln</i>	1311 S st.
Hayden Thomas Hyatt, LIT.	<i>Lincoln</i>	1230 P st.
Frederick Dayton Hyde, CL.	<i>Lincoln</i>	1043 C st.
Stella Ann Kirker, LIT.	<i>Lincoln</i>	686 S. 17th st.
Olive Latta, LIT.	<i>Lincoln</i>	1128 S st.
Cora Catherine Lyons, LIT.	<i>East Lincoln</i>	
Olive Morton Males, CL.	<i>Lincoln</i>	1827 S st.
Avis Belle Manly, CL.	<i>Lincoln</i>	1101 D st.
John Hobart Marble, LIT.	<i>Herron, Dak.</i>	2411 Q st.
James Boyd McDonald, LIT.	<i>North Platte</i>	1510 P st.
Agnes Ogilvie Mortimer, LIT.	<i>Lincoln</i>	1143 S st.
Lydia Alberta Mullon, CL.	<i>Lincoln</i>	1311 N st.
Amos Edward Perrin, LIT.	<i>Roca</i>	1327 O st.
Louise Pound, LIT.	<i>Lincoln</i>	1542 P st.
Frederick William Richards, CL.	<i>Lincoln</i>	1129 S st.
George Lawson Sheldon, LIT.	<i>Nehawka</i>	1555 R st.
Charles McLellan Skiles, CL.	<i>Elmwood</i>	1310 S st.
Florence Sebrina Smith, CL.	<i>Lincoln</i>	626 S. 13th st.
Lura Adelia Stockton, LIT.	<i>Lincoln</i>	629 N. 16th st.
Galen Lamar Tait, LIT.	<i>Beatrice</i>	1504 J st.
Anna Lucile Taylor, CL.	<i>Lincoln</i>	1730 E st.
Mattie Thurber, LIT.	<i>Lincoln</i>	831 N. 14th st.
May Tibbles, LIT.	<i>Bancroft</i>	1704 M st.
Josephine Freeman, CL.	<i>Lincoln</i>	1318 R st.
Mary Elizabeth Wedgwood, CL.	<i>Lincoln</i>	902 C st.
Nellie May White, LIT.	<i>Lincoln</i>	427 S. 15th st.
John Piper Williams, CL.	<i>Lincoln</i>	1332 K st.
Thomas Frederick Williams, LIT.	<i>Portsmouth, Ia.</i>	Cor. F and 29th sts.
Mark White Woods, LIT.	<i>Lincoln</i>	Cor. J and 26th sts.

FRESHMEN, 46.

SPECIAL STUDENTS.

Lucy Ballantine	<i>Omaha</i>	913 E st.
Edith Minerva Brace	<i>Lincoln</i>	1828 F st.
Florence Briscoe	<i>Lincoln</i>	Cor. Locust and 17th st.
William John Brown	<i>Lincoln</i>	612 S 14th st.
Idaer Annita Cornell	<i>Verdon</i>	1830 S st.
Senora Catherine Cornell	<i>Verdon</i>	1830 S st.
Mattie Rogers Crocken	<i>Lincoln</i>	1906 E st.
Harriet Marion Curtiss	<i>Lincoln</i>	925 C st.
Elizabeth Forsyth	<i>New Helena</i>	1512 R st.
Annie Laura Funke	<i>Lincoln</i>	1021 D st.
Martha Funke	<i>Lincoln</i>	1240 J st.
Cleve Lamb Green	<i>Lincoln</i>	1428 Q st.
Lillie Hathaway	<i>Lincoln</i>	1601 M st.
Lena Henry	<i>Memphis</i>	428 N. 12th st.
Lydia Holland	<i>Plattshury, Mo.</i>	516 N. 12th st.
Helena Law	<i>Lincoln</i>	1045 D st.
Edith Leighton	<i>Lincoln</i>	1700 R st.
Nannie Elnora Lillibridge	<i>Lincoln</i>	1829 M st.
Joseph Hamlin Mallalieu	<i>Kearney</i>	Room 5 King block.
Bertha McMillan	<i>Lincoln</i>	1503 H st.
Ellen Gertrude Moulton	<i>Portland, Me.</i>	Cor. E and 9th sts.
Elinor Ann Mullan	<i>Lincoln</i>	1311 N st.
Aileen Oakley	<i>Lincoln</i>	1603 M st.
Mary Elizabeth Passmore	<i>Lincoln</i>	1313 F st.
Lydia Grace Reynolds	<i>Lincoln</i>	621 N. 16th st.
May Lucile Roberts	<i>Lincoln</i>	126 S. 30th st.
Catharine Duncan Scothorn	<i>Lincoln</i>	3021 Q st.
Annie May Smith	<i>Crawfordsville, Ind.</i>	1607 L st.
Eda Tibbles	<i>Bancroft</i>	441 N. 10th st.

SPECIALS, 29.

INDUSTRIAL COLLEGE.

FACULTY AND OTHER INSTRUCTIONS.

- LEWIS E. HICKS, PH.D., *Geology and Allied Sciences*, DEAN.
HENRY E. HITCHCOCK, PH.D., *Mathematics*.
GEORGE E. HOWARD, M.A., *History*.
HUDSON H. NICHOLSON, M.A., *Chemistry*.
LUCIUS A. SHERMAN, PH.D., *English Literature*.
CHARLES E. BESSEY, PH.D., *Botany and Horticulture*.
THOMAS GRIFFITH, U. S. A., *Military Science and Tactics*.
AUGUST H. EDGREN, PH.D., *Modern Languages*.
DEWITT B. BRACE, PH.D., *Physics*.
JOHN S. KINGSLEY, D.SC., *Agriculture and Biology*.
CHARLES N. LITTLE, PH.D., *Civil Engineering*.
HON. ROBERT W. FURNAS, *Forestry*.
HOWARD W. CALDWELL, B.Ph., *History*.
RACHEL LLOYD, PH.D., *Analytical Chemistry*.
EBENEZER W. HUNT, B. A., *Rhetoric and Oratory*.
JOSEPH A. FONTAINE, PH.D., *Romance Languages*.
AMOS G. WARNER, PH.D., *Political and Economic Science*.
HARRY K. WOLFE, PH.D., *Philosophy*.
BOHUMIL SHIMEK, C. E., *Zoology*.

SENIORS.

Helen Barbara Aughey, Sc.	<i>Lincoln</i>	829 N. 30th st.
Myron Isidore Bigelow, Sc.	<i>Bartlett</i>	528 N. 13th st.
Ernest George Eagleson, ENG.	<i>Craig</i>	1907 R st.
Frank Austin Manley, ENG.	<i>Lincoln</i>	1101 D st.
Elbert Roy Tingley, Sc.	<i>Lincoln</i>	3045 G st.
George Henry Tinker, ENG.	<i>Lincoln</i>	Cor. 28th and T st.
Abel Evenson Wagner, Sc.	<i>Beatrice</i>	543 N. 27th st.
Herbert Webber, Sc.	<i>Lincoln</i>	1020 G st.
Thomas Albert Williams, Sc.	<i>Weeping Water</i>	1433 U st.

SENIORS, 9.

JUNIORS.

Frank Fayette Almy, Sc.	<i>Greenwood</i>	University.
Amos Calvin Cope, Sc.	<i>Lincoln</i>	1816 T st.
Thomas Herbert Marsland, AGR.	<i>Lincoln</i>	357 S. 28th sts.
Hans Christian Peterson, Sc.	<i>Lincoln</i>	902 S. 8th st.
Francis Wayland Russell, Sc.	<i>Ord</i>	511 N. 16th st.
Lucius Seymour Storrs, Sc.	<i>Denver, Col.</i>	1708 M. st.
Lewis Herbert Stoughton, AGR.	<i>Perry, Ia.</i>	522 N. 14th st.
Charles Edward Tingley, Sc.	<i>Lincoln</i>	3045 O st.
Albert Fred Woods, Sc.	<i>Lincoln</i>	Cor J and 26th st.

JUNIORS, 9.

SOPHOMORES.

Joseph Allen Barris, ENG.	<i>New Brighton, Pa.</i>	Room 4 State Bldg.
Avery David Haggard, Sc.	<i>Lincoln</i>	1320 G st.
Paul Llewellyn Hibbard, Sc.	<i>York</i>	1547 H st.
Anna Rogers, Sc.	<i>Lincoln</i>	937 S st.
Belle Rogers, Sc.	<i>Lincoln</i>	937 S st.
Guy Plummer Thurber, Sc.	<i>Lincoln</i>	831 N. 14th st.

SOPHOMORES, 6.

FRESHMEN.

James Barelay, Sc.	<i>Lincoln</i>	1411 U st.
Burt Bonnell, Sc.	<i>Omaha</i>	445 N. 13th st.
Theophil Brugger, Sc.	<i>Bellevue</i>	University.
Llewellyn Bryan, ENG.	<i>Audubon, Ia.</i>	1635 H st.
Charles DeLong Chandler, Sc.	<i>Lincoln</i>	1710 D st.
Rupert Dinges, Sc.	<i>Lincoln</i>	845 S st.
John Martin Fairfield, Sc.	<i>Manistee, Mich.</i>	No. 5, King Bldg.
Edwin Gunn, ENG.	<i>Edgar</i>	1228 Q st.
Frederick Courtland Kenyon, Sc.	<i>Unadilla</i>	1700 J st.
Henry Paul Kerr, Sc.	<i>Kearney</i>	1446 Q st.
Griffith Holmes Maghee, Sc.	<i>Rawlins, Wyo.</i>	1617 V st.
Morgan McQuown Maghee, Sc.	<i>Rawlins, Wyo.</i>	Tremont House.
Hugo Emil Nelson, Sc.	<i>Oakland</i>	524 N. 12th st.

Herbert Almon Senter, ENG.	<i>Bancroft</i>	442 N. 12th st.
William Lester Stockton, SC.	<i>Lincoln</i>	629 N. 16th st.
Leroy Ellsworth Troyer, SC.	<i>Dorchester</i>	617 N. 13th st.
Charles Percy Walter, SC.	<i>Lincoln</i>	1301 C st.
Jacob Butler White, SC.	<i>Lincoln</i>	1505 S st.
Jacob Vance Wolf, SC.	<i>Lincoln</i>	1436 S st.
Clarence Dudley Wright, SC.	<i>Utica</i>	1301 U st.
Bruce Clinton Yates, ENG.	<i>Lincoln</i>	1931 Q st.

FRESHMEN, 21.

SPECIAL STUDENTS.

Rosa Bouton	<i>Sabetha, Kan.</i>	445 N. 14th st.
George Linden Campen	<i>Wahoo</i>	231 N. 12th st.
Henry Bruce Duncanson	<i>Aurora</i>	522 N. 14th st.
Gilbert Horace Ellsworth	<i>Red Wing</i>	Cor. 17th and F st.
George Fossler	<i>Lincoln</i>	734 N. 9th st.
Charles Fremont Harlan	<i>Waco</i>	446 N. 14th st.
Thomas Cooke McCleery	<i>Exeter</i>	
Parkason James Jewell	<i>Waverly</i>	556 N. 14th st.
James Joy Riddell	<i>Waverly</i>	1433 S st.
Albert Melville Troyer	<i>Dorchester</i>	617 N. 14th st.
Sidney De Foster Wheeler	<i>Schuyler</i>	345 N. 13th st.
Walter Samuel Wiley	<i>Omaha</i>	1127 M st.

SPECIAL STUDENTS, 12.

THE LATIN SCHOOL.

INSTRUCTORS.

CHARLES E. BENNETT, B. A., PRINCIPAL, *Greek and Latin*.
 HUDSON H. NICHOLSON, M. A., *Chemistry*.
 HOWARD W. CALDWELL, B. PH., *History*.
 CHARLES E. BESSY, PH. D., *Botany*.
 DEWITT B. BRACE, PH. D., *Physics*.
 T. MOREY HODGMAN, B. A., *Mathematics*.
 EBENEZER W. HUNT, B. A., *English*.
 VERNON J. EMERY, B. A., *Latin*.

SECOND YEAR STUDENTS.

Juergen Albers	<i>Johnson</i>	1310 S st.
Anna May Atwood	<i>Humboldt</i>	1449 S st.
Norman Burton Barr	<i>Holdrege</i>	442 N. 12th st.
Jesse Bradford Beecher	<i>Columbus</i>	1441 U st.
Fred Belt	<i>Bennett</i>	Neb. Savings Bank.
Oscar Rufus Bowman	<i>Raymond</i>	Room 147 Burr Blk.
Ida Rebecca Brockman	<i>Humboldt</i>	1449 S st.
Charles Edwin Bryson	<i>Tecumseh</i>	1229 S st.
James Dysart Munro Buckner	<i>Roca</i>	
Nettie Clenen	<i>Brookllyn, N. Y.</i>	1527 M st.
Nellie Sherer Cochrane	<i>Lincoln</i>	1141 D st.
Lyman Beecher Cornell	<i>Verdon</i>	1830 S st.
Kittie Cowdery	<i>Lincoln</i>	1826 F st.
Barney Ellsworth Crosby	<i>Totona, Ills.</i>	1403 M st.
Bella Louisa Cross	<i>Victoria</i>	445 N. 13th st.
Frank Eager	<i>Lincoln</i>	835 N. 14th st.
Mary Ellen Faulkner	<i>Zuma, Col.</i>	1617 V st.
Lula Helen Fletcher	<i>Lincoln</i>	811 G st.
Orville Henry Flory	<i>St. Edward</i>	213 N. 12th st.
Frederick Filer Fowle	<i>Oak Creek, Wis.</i>	940 U st.
Alice Elizabeth Gadd	<i>Lincoln</i>	Cor. H and 18th sts.
Harry Sherman Ganson	<i>Lodge Pole</i>	1400 D st.
Clarence Lincoln Gerrard	<i>Columbus</i>	1441 U st.
Ernest Allen Gerrard	<i>Columbus</i>	1441 U st.
Jessie Wilmina Goodell	<i>Wilber</i>	722 N. 16th st.

Charles Brigham Goodell	<i>Wilber</i>	722 N. 16th st.
Fred Gund	<i>Wilber</i>	722 N. 16th St.
May Gund	<i>Wilber</i>	722 N. 16th St.
George Edward Hall	<i>Verdon</i>	1505 S st.
Herschel Millard Heilig	<i>Tecumseh</i>	1229 S st.
Walter Van Fleet Hoagland	<i>North Platte</i>	1446 Q st.
Fannie Hepsibah Hunt	<i>Wood River</i>	445 N. 13th st.
Frank George Jewett	<i>Centre Ridge, Kans.</i>	2901 J st.
Julia Marie Korsmeyer	<i>Lincoln</i>	923 S. 19th st.
Fannie Land	<i>Lincoln</i>	1001 Pine st.
Derrick Norman Lehmer	<i>Lincoln</i>	1844 D st.
Clyde Warren McCargar	<i>Lincoln</i>	527 N. 9th st.
Louisa McDermott	<i>Sutton</i>	1209 U st.
Randolph McNitt	<i>Red Cloud</i>	Room 6 Carder House
Otto Gabriel Miller	<i>Syracuse</i>	844 S. 10th st.
Minnie Julia Moore	<i>Lincoln</i>	705 N. 25th st.
Russell Neumann	<i>Oakland</i>	524 N. 22th st.
George Thomas Patterson	<i>North Platte</i>	517 S. 11th st.
Joseph Stras Peery	<i>Ogden, Utah</i>	1449 S st.
Grace Pershing	<i>Lincoln</i>	1627 R st.
May Pershing	<i>Lincoln</i>	1637 R st.
Edith Loraine Pierce	<i>Victoria</i>	2828 S st.
Paul Pizey	<i>Dakota City</i>	1452 U st.
Ernest Mark Pollard	<i>Nehawka</i>	1441 Q st.
Nelson Levi Pollard	<i>Nehawka</i>	1555 R st.
James Chester Porterfield	<i>Fullerton</i>	2345 R st.
William Colfax Roberts	<i>East Lincoln</i>	
Christian Rohwer	<i>DeSoto</i>	1310 S st.
Willits Herbert Sawyer	<i>Lincoln</i>	2800 R st.
James Joseph Sayer	<i>Lincoln</i>	1635 Vine st.
Floyd Seybolt	<i>Lincoln</i>	245 S. 26th st.
Charles Benjamin Franklin Smith	<i>Hendricks</i>	530 N. 12th st.
Cora Frances Smith	<i>Lincoln</i>	1631 F st.
Martha Smith	<i>Nebraska City</i>	1417 Q st.
Effie Mabel Snell	<i>Ashland</i>	428 N. 12th st.
Lewis Gilmore Thayer	<i>Iola</i>	1420 V st.
Olive May Van Hise	<i>Minden</i>	1617 V st.
Mary Emma Walton	<i>Lincoln</i>	1707 A st.
George Henry Whaley	<i>Columbus</i>	1502 U st.
Roy McMillan Wheeler	<i>Creston, Ills.</i>	1503 H st.
Montana Allen Whisler	<i>Ashland</i>	442 N. 12th st.
Alice Earl Wing	<i>Lincoln</i>	Cor. 14th and Marion sts.
Bessie Russell Wing	<i>Lincoln</i>	Cor. 14th and Marion sts.
William Francis Wolfe	<i>Friend</i>	327 N. 13th st.
Clarence Hubert Woods	<i>Lincoln</i>	326 N. 17th st.

SECOND YEAR STUDENTS, 70.

FIRST YEAR STUDENTS.

Mary Henderson Ames	Lincoln	721 K st.
Arthur Myron Anderson	Oakland	524 N. 12th st.
John Beachly	Lincoln	1246 K st.
Joseph Beardsley	Lincoln	221 S. 15th st.
Jessie Florence Bigelow	Hebron	1420 V st.
Rollaud Stanton Bulla	St. Edwards	231 N. 12th st.
George James Burke	Lincoln	442 N. 12 st.
Charles Ellis Byars	Valley	435 N. 13th st.
John Lewis Cohron	Pleasant Hill, Mo.	1027 F st.
Ulysses Grant Cornell	Verdon	1830 L st.
Charles Edmund Doran	Sidney	1500 S st.
Annie Johnson Dunn	Lincoln	Cor. 23d and Vine sts.
Harry McRay Dunn	Lincoln	Cor. 23d and Vine sts.
John William Eagleson	Craig	1807 R st.
Lee Wilson Edwards	Lincoln	530 N. 12th st.
Mary Grace Edwards	Lincoln	530 N. 12th st.
Willie Ebenezer Ellis	Lincoln	535 N. 16th st.
Julia Pamela Ellison	Hebron	621 N. 13th st.
William Forsyth	New Helena	1504 S st.
Arcule Edward Guilmette	Hastings	1222 O st.
Lucena Hardin	Lincoln	345 N. 17th st.
Florence Julia Hermance	Pittsfield, Mass.	1218 T st.
Dellie Hodges	Madison	1811 F st.
Martha Hutchison	Ashland	Cor. S and 21st sts.
Flora Hull	Edgar	334 N. 17th st.
George Lee	Cheyenne, Wyo.	621 N. 16th st.
Esther Lightner	Matson	629 N. 16th st.
John Neriah Lottridge	Lincoln	1218 T st.
Joseph Lownes	S. East Lincoln	
Charles Anson Lyman	Lincoln	1119 H st.
Roxie Lynch	Humboldt	2511 V st.
William Robinson Macaulay	Kearney	1928 J st.
George Malcolm	Lincoln	701 C st.
Gertrude Emma Marsland	Lincoln	347 S. 28th st.
Stella McGinnis	Lincoln	2337 Vine st.
Bessie Merrill	Sterling	441 N. 16th st.
Alice Mabel Moore	Bradshaw	739 N. 11th st.
Emily Grace Moore	York	739 N. 16th st.
Howard Randolph Murphy	Firth	273 S. 20th st.
Edward Everett Nicholson	Lincoln	642 S. 10th st.
Bernard O'Connor	Lincoln	1200 T st.
Ralph Oliver	Odell	1120 F st.
George Henry Palmer	Plattsmouth	334 N. 17th st.
Henry Podelsak	Milligan	Cor. E and 4th sts.
Freeman Mitchell Ransom	Lincoln	1425 S st.
Carrie Curtiss Reed	Lincoln	1829 E st.
Wirt Reid	Lincoln	524 N. 16th st.
William Austin Richmond	Utica	1201 U st.
Frank Augustus Rockhold	Wygore	435 N. 13th st.
Aretas Scott	Humboldt	1631 Q st.

Henry Allen Shannon	<i>Pawnee City</i>	442 N. 12th st.
Joseph Reed Shannon	<i>Pawnee City</i>	442 N. 17th st.
Lucius Whittlesey Sherman	<i>Lincoln</i>	1138 T st.
Lenhart Otho Shrader	<i>Logan</i>	1310 S st.
Clarence Tefft	<i>Avoca</i>	Room 2 May's Blk.
May Eveline Thurber	<i>Lincoln</i>	831 N. 13th st.
Elizabeth Ann Tuttle	<i>Lincoln</i>	1447 S st.
Augustus Muhlenburg Van Derslice	<i>Cheney</i>	816 S. 16th st.
Mary Robinson Weeks	<i>Lincoln</i>	1327 H st.
Noyes Watters Willett	<i>Montezuma, Ia.</i>	1441 U st.
Benjamin Franklin Henry Winters	<i>Bardolph, Ia.</i>	Cor. 10th and N sts.
Mrs. A. G. Wolfenbarger	<i>Lincoln</i>	Cor. T and 29th sts.

FIRST YEAR STUDENTS, 62.

SPECIAL STUDENTS.

Selia May Dew	<i>Tecumseh</i>	516 N. 12th st.
Mrs. Hara Ferguson	<i>Lincoln</i>	1526 N st.
Percy Andrew Gibson	<i>Omaha</i>	1336 J st.
Almon Tower	<i>Lincoln</i>	307 N. 24th st.

SPECIALS, 4.

SCHOOL OF THE FINE ARTS.

SARAH WOOL MOORE, *Art History, Painting, and Drawing.*
 ERMINA DAY COCHRAN, M.A., *Piano and Voice.*
 GUSTAV C. MENZENDORF, *Violin, Harmony, and Counterpoint.*

ART STUDENTS.

F. F. Almy	Drawing	<i>Greenwood.</i>
Arthur M. Anderson	Drawing	<i>Oakland.</i>
Mrs. Ada Atkinson	Art History	<i>Lincoln.</i>
Mrs. Brace	Art History	<i>Lincoln.</i>
Florence Briscoe	Painting	<i>Lincoln.</i>
Theo. Brugger	Drawing	<i>Bellevue.</i>
Mrs. L. Bruner	Drawing	<i>Lincoln.</i>
Clara Buckstaff	Drawing	<i>Lincoln.</i>
Mrs. Chapman	Art History	<i>Lincoln.</i>
Rheta L. Childe	Drawing	<i>Lincoln.</i>
Mrs. Mabel Clason	Drawing	<i>Lincoln.</i>
Nettie Clenen	Drawing, Art History	<i>Brooklyn, N. Y.</i>
Idaer A. Cornell	Drawing	<i>Verdon.</i>
Marie A. Cornell	Drawing	<i>Lincoln.</i>
Lizzie Crowley	Perspective Drawing, Painting	<i>Friend.</i>
Hattie M. Curtiss	Art History	<i>Lincoln.</i>
Mrs. Margaret Davis	Drawing	<i>Lincoln.</i>
Nellie S. Cochran	Drawing	<i>Lincoln.</i>
John Eagleson	Drawing	<i>Craig.</i>
Lulu Fletcher	Drawing	<i>Lincoln.</i>
Elizabeth Forsyth	Drawing	<i>New Helena.</i>
Lillie Franklin	Drawing	<i>Lincoln.</i>
Martha Funke	Drawing	<i>Lincoln.</i>
Marjcl Gere	Drawing	<i>Lincoln.</i>
E. E. Gillespie	Drawing	<i>Lincoln.</i>
W. B. Graham	Art History	<i>Seward.</i>
Mrs. Pearl Griffin	Art History	<i>Lincoln.</i>
Mrs. Anna R. Hall	Painting	<i>Lincoln.</i>
Sarah B. Harris	Art History	<i>Lincoln.</i>
Dora Harley	Drawing	<i>Lincoln.</i>
Harry Harley	Drawing	<i>Lincoln.</i>
Lillie Hathaway	Drawing	<i>Lincoln.</i>
Florence Hermance	Drawing	<i>Pittsfield, Mass.</i>
Lydia Holland	Drawing	<i>Plattsburg, Mo.</i>

P. J. Jewell	Drawing	Waverly
Woodward Jones	Drawing	
Mary Kirkpatrick	Drawing	
S. C. Langworthy	Art History	Seward
Helena Lau	Drawing	Lincoln
Theodora Laws	Drawing	Lincoln
Edith Leighton	Art History	Lincoln
Mrs. Lillie Lewis	Art History	Lincoln
Mrs. Emma Little	Art History	Lincoln
Roxie Lynch	Drawing	Humboldt
Bertha McMillan	Drawing	Lincoln.
Edith A. Merriam	Art History	Crete
Clarence Metcalf	Drawing	Lincoln.
Edith Mockett	Art History	Lincoln.
Grace Moore	Drawing	York.
Mabel Moore	Drawing	Bradshaw.
Olive Moore	Drawing	Lincoln.
Ellen G. Moulton	Drawing, Art History,	Portland, Me.
Winnie Nicholson	Drawing	Lincoln.
Hazel Norton	Drawing	Lincoln.
Aileen Oakley	Drawing	Lincoln.
Mrs. Sarah Outcalt	Art History	Lincoln.
M. L. C. Pace	Drawing	Lincoln.
Geo. H. Palmer	Drawing	Plattsmouth.
Mary E. Passmore	Art History	Lincoln.
Jos. S. Peery	Art History	Ogden, Utah.
Edna Polk	Drawing	Lincoln.
Sarah Riley	Drawing	Fullerton.
Laura Roberts	Drawing	East Lincoln.
W. C. Roberts	Drawing	East Lincoln.
C. H. Rohwer	Drawing	East Lincoln.
Edith Russel	Drawing	East Lincoln.
H. A. Senter	Drawing	Bancroft
Geo. Sheldon	Drawing	Nehawka.
Cora Smith	Drawing	Lincoln.
Genia H. Stillman	Drawing	
Mary Thompson	Drawing	Lincoln.
A. M. Troyer	Art History	Dorchester.
Adele Wade	Drawing, Art History	
	Perspective	Lincoln.
Mrs. Wadworth	Art History	Lincoln.
Mary Weeks	Drawing	Lincoln.
W. H. Wheeler	Art History	Omaha.
Alicc Wing	Drawing	Lincoln.
Mrs. Mary Wing	Art History	Lincoln.
B. C. Yates	Drawing	Lincoln.
Nellie A. Zehrung.	Drawing	

ART STUDENTS, SO.

In addition to the above, instruction in Freehand Drawing was given to thirty-five students in the second year of the Latin School, thus making an aggregate for the department of one hundred and fifteen students.

MUSIC STUDENTS.

Helen Bagley	Voice and Harmony	<i>Lincoln.</i>
Flora Baker	Voice	<i>Lincoln.</i>
Lulu Balentine	Piano	<i>Omaha.</i>
Anna Barr	Piano	<i>Lincoln.</i>
Lulu Bean	Voice	<i>Lincoln.</i>
Alma Benedict	Piano	<i>Lincoln.</i>
Ida Bierwirth	Violin	<i>Lincoln.</i>
Haydee Bierwirth	Piano	<i>Lincoln.</i>
Jessie Bigelow	Piano	<i>Hebron.</i>
Mrs. Lizzie C. Boggs	Piano	<i>Lincoln.</i>
Beth Brenizer	Voice	<i>Broken Bow.</i>
Cora Brooks	Piano	<i>Lincoln.</i>
Charles C. Brown	Violin	<i>Lincoln.</i>
Grace Burr	Violin	<i>Lincoln.</i>
Frank Burr	Violin	<i>Lincoln.</i>
Mary Caldwell	Piano	<i>Lincoln.</i>
Veyne Chandler	Voice	<i>Concordia, Kans.</i>
Myra E. Clark	Piano	<i>Sutton.</i>
Nellie Cornell	Piano and Harmony	<i>Syracuse.</i>
Kittie Cowdery	Piano and Harmony	<i>Lincoln.</i>
Mattie Crocken	Piano	<i>Lincoln.</i>
Mary R. Cunningham	Piano	<i>Lincoln.</i>
Mary Frances Day	Piano and Harmony	<i>Mansfield, Ohio.</i>
Lelia Dew	Piano and Harmony	<i>Tecumseh.</i>
Mary Dixon	Voice	<i>Lincoln.</i>
Julia Ellison	Piano	<i>Hebron.</i>
Nellie Faulkner	Piano and Harmony	<i>Lincoln.</i>
Nannie Fulton	Organ and Harmony	<i>Alexandria.</i>
Anna L. Funke	Piano	<i>Lincoln.</i>
Jessie Goodell	Piano and Harmony	<i>Wilber.</i>
May Gund	Piano, Voice and Harmony	<i>Wilber.</i>
Etta Hall	Piano	<i>Davey.</i>
Lena Henry	Piano	<i>Memphis.</i>
Florence Hermance	Piano	<i>Lincoln.</i>
Eleanor Hiltner	Piano	<i>Lincoln.</i>
Lydia Holland	Piano	<i>Nebraska City.</i>
Flora A. Hull	Piano and Voice	<i>Edgar.</i>
Fannie Hunt	Piano and Voice	<i>Wood River.</i>
Katie Joyce	Piano	<i>Lincoln.</i>
Ura Kelly	Piano	<i>Lincoln.</i>
Alla Lantz	Piano and Voice	<i>Lincoln.</i>
Derrick N. Lehmer	Violin and Voice	<i>Lincoln.</i>
Edith Lewis	Violin	<i>Lincoln.</i>
Winifred Manatt	Voice	<i>Lincoln.</i>
Sadie Manatt	Violin	<i>Lincoln.</i>
Rachel Manley	Voice	<i>Lincoln.</i>
Belle Manley	Piano	<i>Lincoln.</i>
Louisa McDermott	Piano	<i>Sutton.</i>
Anna H. Merrill	Piano	<i>Sutton.</i>
Bessie Merrill	Piano	<i>Sterling.</i>

Louise Merrill	Harmony	Lincoln.
Jessie Miller	Piano	Plattsmouth.
Fred Morrill	Voice	Chapman.
Daniel Bernard O'Connor	Piano	Lincoln.
Grace Pershing	Voice	Lincoln.
May Pershing	Piano	Lincoln.
Anna Pearl Phillips	Piano	Berlin.
Alfred Pizey	Voice	Dakota City.
Louise Pound	Piano and Sight-Reading	Lincoln.
Olivia Pound	Piano and Voice	Lincoln.
Harry A. Reese	Voice	Wahoo.
Minnie Reetz	Piano	Lincoln.
Jennie D. Rehlaender	Piano	Lincoln.
Daisy Reimers	Piano	Lincoln.
Alice Russell	Piano	Ord.
Jens H. Schack	Violin	Lincoln.
Anna Seybolt	Piano	Lincoln.
Joseph R. Shannon	Violin	Pawnee City.
Gertrude A. Smith	Piano	Lincoln.
Anna J. Spencer	Piano	Firth, Neb.
Lulu Belgrave Sprague	Voice	St. Louis, Mo.
Lura Stockton	Piano	Lincoln.
Louis Stull	Violin	Lincoln.
Georgia Taylor	Piano and Voice	Wymore.
Lathrop Taylor	Piano	Lincoln.
Almon Tower	Piano, Voice, Harmony and Bass Viol	Lincoln.
Leroy E. Troyer	Voice	Dorchester.
Burt Whedon	Violin	Lincoln.
Elinor Williams	Piano	Lincoln.
Charles Witte	Violin	Lincoln.
Halsey Yates	Piano	Lincoln.

MUSIC STUDENTS, 1922.

UNIVERSITY ORCHESTRA.

GUSTAV C. MENZENDORF, Conductor.
ERMINA D. COCHRAN, Pianist.
GEORGE B. FRANKFORTER, 1st Violin.
IDA BIERWIRTH, 1st Violin.
DERRICK N. LEHMER, 2nd Violin.
LEWELLYN BRYAN, 2nd Violin.
ALMON TOWER, Double Bass.
GILBERT H. ELLSWORTH, Flute.
THOMAS A. WILLIAMS, Clarinet.
OTTO G. MILLER, Trombone.
HARVEY ADAMS, Trombone.
ELTON H. FULMER, Cornet.

UNIVERSITY CHORUS.

SOPRANOS.

FLORA BAKER
LULU BEAN
LUCY C. BRAUN
IDA M. BROCKMAN
MARY CALDWELL
JEANNETTE CLENEN
NELLIE FAULKNER
MAY GUND
DENA LOOMIS
ETHEL MARSLAND
MAY PERSHING
EDITH PIERCE
GEORGIA TAYLOR

TENORS.

HARRY K. HEFFLEMAN
DERRICK N. LEHMER
ALMON TOWER
LEROY E. TROYER
A. N. TROYER

ALTOS.

HELEN AUGHEY
LIZZIE BONNELL
IDA BONNELL
RACHEL MANLEY
GRACE PERSHING
LULU SPRAGUE

BASSES.

O. R. BOWMAN
GEORGE W. GERWIG
WALTER B. GRAHAM
THOMAS L. HALL
GEORGE HALL
HARRY A. REESE
FRANK C. TAYLOR
GUY P. THURBER
THOMAS A. WILLIAMS

MILITARY DEPARTMENT.

2D LIEUT. T. W. GRIFFITH, 18TH U. S. Infantry, Commandant.

BATTALION ORGANIZATION.

STAFF.

WILLIAM L. STEPHENS, 1st Lieutenant and Adjutant.
 CHAS. P. WALTER, Sergeant-Major.

BAND.

DAVID F. EASTERDAY, Instructor.
 WALTER B. GRAHAM, Acting Drum Major.
 GILBERT H. ELLSWORTH, Piccolo.
 THOMAS. A. WILLIAMS, 1st Bb Clarinet.
 EMORY C. HARDY, 2d Bb Clarinet.
 GEO. O. HEARN, Leader Eb Cornet.
 EDWARD HEILIG, Solo Bb Cornet.
 WM. E. BROOK, 1st Bb Cornet.
 GEO. E. HALL, 2d Bb Cornet.
 H. B. DUNCANSON, 3d Bb Cornet.
 JAMES J. SAYER, Solo Alto.
 JUERGEN ALBERS, 1st Alto.
 JOHN A. EAGLESON, 2d Alto.
 DERRICK N. LEHMER, 3d Alto.
 ALFRED PIZEY, 1st Tenor.
 RUSSELL NEUMAN, 2d Tenor.
 OTTO MILLER, Trombone.
 JAMES B. McDONALD, Baritone.
 NORMAN B. BARR, Bb Bass.
 LLEWELLYN BRYAN, Tuba.
 OLIVER M. MALES, Bass Drum.
 LEE W. EDWARDS, Cymbals.
 PAUL PIZEY, Snare Drum.

OFFICERS.

Co. A.

CAPT. HERBERT J. WEBBER.
 1ST LIEUT. C. B. NEWCOMER.
 2D LIEUT. F. W. COLLINS.

Co. C.

CAPT. G. H. BAUGHMAN.
 1ST LIEUT. O. W. FIFER.
 2D LIEUT. D. A. HAGGARD.

Co. B.

CAPT. W. N. FLETCHER.
 1ST LIEUT. G. H. TINKER.
 2D LIEUT. H. LA MASTER.

Co. D.

CAPT. G. W. GERWIG.
 1ST LIEUT. E. G. EAGLESON.
 2D LIEUT. F. H. WOODS.

SERGEANTS.

Co. A.

1. F. H. MARSLAND.
2. H. K. HEFFLEMAN.
3. E. FARMER.
4. F. C. TAYLOR.

Co. C.

1. F. H. WOODS.
2. W. B. GRAHAM.
3. J. W. MCCROSKY.
4. C. D. SCHELL.

Co. A.

1. F. F. ALMY.
2. L. S. STORRS.
3. N. W. PETERS.
4. E. P. BROWN.

Co. D.

1. H. C. PETERSON.
2. G. P. THURBER.
3. W. J. TAYLOR.
4. R. O. WILLIAMS.

CORPORALS.

Co. A.

1. A. A. FAUROT.
 2. C. C. FLETCHER, (Actg. Color Sgt.)
 3. P. J. JEWELL.
 4. H. J. EDMISTON.
 5. G. H. MAGHEE.
- 14 Privates.

Co. C.

1. J. B. FOGARTY.
 2. W. L. STOCKTON.
 3. S. D. WHEELER.
 4. E. E. NICHOLSON.
- 16 Privates.

Color Guard.

- Corporal E. E. FLETCHER.
Corporal P. L. HIBBARD.
Corporal E. E. NICHOLSON.
Corporal F. D. HYDE.

Co. B.

1. N. PLUMB.
 2. W. T. BROWN.
 3. F. SEYBOLT.
 4. F. D. HYDE.
- 15 Privates.

Co. D.

1. P. F. HIBBARD.
 2. A. E. PERRIN.
 3. L. B. CORNELL.
 4. H. E. NELSON.
- 14 Privates.

Markers.

- G. L. TAIT.
F. D. EAGER.

ARTILLERY.

UNIVERSITY BATTERY.

2D LIEUT. T. W. GRIFFITH, 18TH U. S. Infantry, COMMANDING.

Detachment A.

SERGEANT H. C. PETERSON,
COMMANDING.
C. B. NEWCOMER,
GUNNER.

Detachment B.

SERGEANT F. F. ALMY,
COMMANDING.
C. D. SCHELL,
GUNNER.

CANNONEERS.

O. R. BOWMAN.
W. C. DORSEY.
H. E. NELSON.
H. J. PODLESAK.
A. SCOTT.
C. B. SMITH.
W. A. RICHMOND.
C. B. YATES.

J. BEARDSLEY.
W. T. BROWN.
E. S. GUNN.
P. I. HIBBARD.
F. G. JEWETT.
F. SEYBOLT.
W. V. WOLFE.

Detachment "C."

SERGEANT C. P. WALTER,
COMMANDING.
G. P. THURBER,
GUNNER.

CANNONEERS.

R. S. BULLA.
L. EDWARDS.
C. C. FLETCHER.
P. J. JEWELL.
G. H. MAGHEE.
H. A. SENTER.
S. D. WHEELER.

THE AGRICULTURAL EXPERIMENT STATION OF
NEBRASKA.

(Established in connection with the Industrial College, by an act of Congress, approved May 2, 1887.)

GOVERNING BOARD—THE REGENTS OF THE UNIVERSITY.

* EXECUTIVE COMMITTEE.

CHARLES H. GERE, LEAVITT BURNHAM, CHARLES E. BESSEY.

VISITING COMMITTEE.

R. W. FURNAS, Brownville, }
W. R. ROBERTSON, Madison, }Agricultural Society.
G. J. CARPENTER, Fairbury,Horticultural Society.

STATION OFFICERS.

CHARLES E. BESSEY.....*Director.*
J. STUART DALES.....*Treasurer.*

WORKING STAFF.

JARED G. SMITH, B.S.C.....*Assistant Agriculturalist.*
HUDSON H. NICHOLSON, M.A.....*Chemist.*
DEWITT B. BRACE, PH.D.....*Meteorologist.*
FRANK S. BILLINGS, D.V.M.....*Investigator of Animal Diseases.*
LEWIS E. HICKS, PH.D.....*Geologist.*
LAWRENCE BRUNER.....*Entomologist.*
CHARLES E. BESSEY, PH.D.....*Botanist.*
J. D. COURTNEY.....*Foreman of the Farm.*

SUMMARY OF STUDENTS.

ACADEMIC COLLEGE—

GRADUATE STUDENTS.....	9
Seniors.....	19
Juniors.....	20
Sophomores.....	20
Freshmen.....	46
Specials.....	29—143

INDUSTRIAL COLLEGE—

Seniors.....	9
Juniors.....	9
Sophomores.....	6
Freshmen.....	21
Specials.....	12—57

LATIN SCHOOL—

Second Year.....	70
First Year.....	61
Specials.....	4—135

SCHOOL OF THE FINE ARTS—

Art Students.....	80
Music Students.....	82—162
Aggregate enrollment.....	497
Repeated.....	70
Total of unrepeated names.....	427

THE COLLEGES.

The University of Nebraska consists at present of two undergraduate Departments or Colleges, as follows:

The ACADEMIC COLLEGE, ("The College of Literature, Science and the Arts."
THE INDUSTRIAL COLLEGE.

There is in operation, in connection with these Colleges, a *Latin School*. Preparatory instruction is here provided for students denied the opportunity in the schools of their own neighborhood.

An inchoate *School of Graduate Instruction* is open to graduates of these and other colleges.

There is also a *School of Art and Music*, in which, pending the opening of the COLLEGE OF THE FINE ARTS, instruction is given in Instrumental and Vocal Music, and in Drawing, Painting, and in the History of Art.

REQUIREMENTS FOR ADMISSION.

ADMISSION TO THE FRESHMAN CLASS.

All candidates for admission to the Freshman Class in any Course (except those holding certificates of graduation from the High Schools named below) will be examined in the following subjects:

English.—English grammar, with Bain's "Higher English Grammar" as a basis; spelling, punctuation, capitalization. Each candidate will also be required to write an essay, not to exceed 500 words, on any one of the following subjects that the examiner may select: 1. The Story of Viola ("Twelfth Night"); 2. The Character of Primrose ("Vicar of Wakefield"); 3. The Story of Mark Tapley ("Martin Chuzzlewit"); 4. The Circumstances that gave rise to Magna Charta.

Geography.

Mathematics.—Arithmetic; Higher Algebra to Undetermined Coefficients; Plane and Rectilinear Solid Geometry.

History.—Barnes's General History, or Swinton's Outlines.

Latin.—Allen and Greenough's or Harkness's Grammar; Cæsar, two books; Cicero, four orations; Allen's Latin Composition, thirty lessons. (The Roman pronunciation should be used exclusively.)

Applicants for admission to the CLASSICAL COURSE will be further examined in the following text-books:

Greek.—Goodwin's Greek Grammar, and White's Lessons to Syntax.

But applicants for admission to the SCIENTIFIC, LITERARY, ENGINEERING AND THE AGRICULTURAL COURSES will prepare for examination in the following subjects, *instead of Greek*:

Chemistry.—Such knowledge of Elementary Chemistry as may be obtained by a year's study of Avery's, Shepard's, or Remsen's Elements of Chemistry, with laboratory practice.

Physics.—Such knowledge of Elementary Physics as may be acquired by thorough study of Balfour Stewart's Lessons in Elementary Physics, or an equivalent.

Botany.—General Botany, including the principal characters of the great divisions of the vegetable kingdom, the structure, analysis, and identification of flowering plants (Gray's Lessons and Manual), and collection of one hundred plants in herbarium.

The first examination of candidates for the Freshman Class, or for advanced standing, will be held on Thursday and Friday after Commencement, June 13 and 14, 1889, beginning at 9 A. M. A second examination will be held on Tuesday and Wednesday, Sept. 16 and 17, at the opening of the Fall term. Attendance is required in all cases at the opening of the examination.

ADMISSION BY DIPLOMA.

Candidates holding diplomas from the High Schools of *Alma, Ashland, Auburn, Beatrice, Edgar, Fremont, Grand Island, Kearney, Lincoln, Nebraska City, Plattsmouth, and Ulysses*, will be admitted to the Freshman Class without examination.

ADVANCED STANDING.

All candidates will be examined, in addition to the preparatory subjects enumerated above, in the studies already pursued by the class which they wish to enter.

ADMISSION TO THE LATIN SCHOOL.

Candidates for admission to the First Year Class of the Latin School will be examined in *English Grammar*, *Arithmetic* (Fractions, denominate numbers, percentage and its applications, analysis, and proportion), *Geography*, and *History of the United States*.

Further statements as to examination and entrance to the Second Year Class are given under the head of the "Latin School" upon a subsequent page.

SPECIAL STUDENTS.

Persons over twenty-one years of age, not regularly admitted to the Freshman Class, are sometimes allowed by a vote of the Faculty to select all their studies from the College classes. Such students receive no degree, but are entitled to a certificate showing the studies pursued with credit.

Candidates for a degree at the discretion of the Faculty may take less than the prescribed number of hours each term, and thus extend their course over a greater number of years.

UNDERGRADUATE INSTRUCTION.

THE ACADEMICAL COLLEGE.

College of Literature, Science, and the Arts.

In this College are offered Two COURSES OF STUDY, designated as the CLASSICAL and the LITERARY, leading to the degrees of B.A., and B.L., respectively.

CLASSICAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

Latin.—Vergil: *Aeneid*, book I. II. Prosody. (Five hours per week.)

Greek.—Xenophon: *Anabasis*, book I. Syntax. Jones's Prose Composition. (Four hours.)

Mathematics I.—Spherical Geometry and Trigonometry. Exercises in original demonstration. (Five hours.)

Rhetoric.—Practical exercises in Criticism and Composition; study of special models in Narration and Description. (Two hours.)

SECOND TERM.

Latin.—Vergil: *Aeneid*, book VI.; and four Eclogues. Prosody. Review of Syntax of Nouns by Grammar and Analytical Charts. (Four hours.)

Greek.—*Anabasis*, or *Hellenica*, one book. Syntax. Greek Composition. (Five hours.)

Mathematics II.—Trigonometry and Higher Algebra. Original demonstrations. (Five hours.)

Rhetoric.—Practical exercises in Criticism and Composition, continued. Themes and Studies in Style. (Two hours.)

THIRD TERM.

Latin.—Cicero: De Senectute. Review of the Syntax of Verbs by Grammar and Analytical Charts. (Five hours.)

Greek.—Lysias: one Oration. Syntax. Greek Composition finished. (Four hours.)

Mathematics III.—Conic Sections. Original demonstrations. (Five hours.)

Rhetoric.—Argumentative Themes; Studies in Oratory. (Two hours.)

SOPHOMORE YEAR.

FIRST TERM.

Latin.—Livy: book XXI., with Quintus Curtius at sight. (Five hours.)

Greek.—Homer: Iliad, books I. and II. (Five hours.)

German.—Whitney's Grammar and Reader (three hours); Ahn-Fischer's Exercises (two hours.)

Rhetoric.—One Essay on an Assigned Subject.

SECOND TERM.

Latin.—Livy: book XXII., with Quintus Curtius at sight, continued through one book. (Five hours.)

Greek.—Thucydides: book VII. (Five hours.)

German.—Whitney's Grammar and Reader (three hours); Ahn's Exercises and Stern's Studien, second series (two hours.)

Rhetoric.—One Essay on an Assigned Subject.

THIRD TERM.

Latin.—Horace: Selected Odes, with Prosody. (Five hours.)

Greek.—Plato: Apology and Crito. (Five hours.)

German.—Whitney's Grammar and Reader (two hours); Schiller's Der Neffe, and Stern's Studien, at sight (two hours.)

Rhetoric.—One Essay on an Assigned Subject.

JUNIOR YEAR.

FIRST TERM.

Latin.—Horace: selected Satires and Epistles; Ars Poetica. (Three hours.)

Greek.—Sophocles; Antigone. Studies and Essays on the Greek Drama. (Three hours.)

German.—Fouque's Undine (three hours); Lessing's Minna von Barnhelm (two hours.)

Rhetoric.—One Essay.

Electives.—(Five hours are required.)

SECOND TERM.

Latin.—Plautus: Captivi; Terence: Adelphi. (Three hours.)

Greek.—Demosthenes: De Corona; Studies and Essays on the Greek Orators. (Three hours.)

German.—Schiller's Wilhelm Tell (three hours); Goethe's Prose (two hours.)

Rhetoric.—One essay.

Electives.—(Five hours.)

THIRD TERM.

Latin.—Tacitus: Germania and Agricola. (Three hours.)

Greek.—Plato: Phædo. (Three hours.)

German.—Lessing's Nathan der Weise (three hours); Goethe's Hermann and Dorothea (two hours); Lecture on the History of the Language.

Rhetoric.—One Oration.

Electives.—(Five hours.)

SENIOR YEAR.

FIRST TERM.

Political Economy.—General study of the subject on the basis of F. A. Walker's larger work, with special reading and reports on topics assigned in Mill, Cairnes, Jevons, Sidgwick, Roscher, Newcomb, Perry, and other writers. (Three hours.)

Philosophy.—General study of the subject, following Sully and Lotze; special reading and reports from other authorities. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Ten hours required.)

SECOND TERM.

Political Economy.—A more thorough study of selected topics, with special reference to current practical questions. (Three hours.)

Logic.—Formal Logic; Logic in its applications in the field of Science and Forensics. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Ten hours.)

THIRD TERM.

International Law.—Outline study of the subject, with special reference to existing relations among the Great Powers of Europe. (Three hours.)

Ethics.—Martineau's Ethical Theory; special readings in Sidgwick, Janet, Spencer, Bain, and other writers. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Ten hours.)

LITERARY COURSE.

FRESHMAN YEAR.

FIRST TERM.

Mathematics I.—Spherical Geometry and Trigonometry. Original demonstrations. (Five hours.)

Rhetoric.—Practical Exercises in Criticism and Composition; study of special models of Narration and Description. (Two hours.)

German.—Whitney's Grammar and Reader (three hours); AhnFischer's Exercises (two hours.)

History.—Ancient History: Cox's Greeks and Persians and Athenian Empire. Lectures and blackboard analyses on the Constitutional History of Athens and Sparta. One lecture required from each student on some topic assigned. (Four hours.)

SECOND TERM.

- Mathematics II.*—Trigonometry and Higher Algebra. (Five hours.)
- Rhetoric.*—Practical Experience in Criticism and Composition, continued. Themes and Studies in Style. (Two hours.)
- German.*—Whitney's Grammar and Reader (three hours); Ahn's Exercises and Stern's Studien, second series (two hours.)
- History.*—Ancient History: Ihne's Early Rome; Smith's Rome and Carthage; special analysis of Roman institutions, the Comitia, Magistracies, Collegia, Ranks, Classes, etc. One Lecture. (Four hours.)

THIRD TERM.

- Mathematics III.*—Conic Sections. Original demonstrations. (Five hours.)
- Rhetoric.*—Argumentative Themes; Studies in Oratory. (Two hours.)
- German.*—Whitney's Grammar and Reader (two hours); Schiller's Der Neffe and Stern's Studien, at sight (three hours.)
- History.*—Ancient History: Beesley's The Gracchi, Marius, and Sulla; Merrivale's Triumvirates. Blackboard exercises on political institutions, continued. Theme of Lecture by each student. (Four hours.)

SOPHOMORE YEAR.

FIRST TERM.

- German.*—Fouque's Undine (two hours); Lessing's Minna von Barnhelm (two hours.)
- French.*—Whitney's Grammar; French Readings. (Four hours.)
- Anglo-Saxon.*—Siever's Grammar, and Sweet's Reader; Cædmon's Exodus; Beowulf begun. (Four hours.)
- Rhetoric.*—One Essay on an assigned subject.
- History.*—Cape's Early Empire and Age of the Antonines; Arnold's Roman Provincial Administration. Further study of the Roman Constitution, with particular attention to the Civil and Military Organization under Diocletian and Constantine. One Theme. (Four hours.)

SECOND TERM.

- German.*—Schiller's Wilhelm Tell (two hours); Goethe's Prose (two hours.)
- French.*—Whitney's Grammar; French Readings. (Four hours.)
- Anglo-Saxon and Early English.*—Beowulf, 1200 lines. Mætzner's Altenglische Sprachproben. (Four hours.)
- Rhetoric.*—One Essay on an assigned subject.
- History.*—The Middle Ages: Studies in Hodgkin's Italy and Her Invaders, Church's Beginning of the Middle Ages, Gibbon's Decline and Fall, Hallam's Middle Ages, Cox's Crusades, covering the period from Constantine to the Crusades. Practical topics: The Barbarian Invasion; Charles the Great; Theory of the Holy Roman Empire; Rise of the Papal Power. (Four hours.)

THIRD TERM.

German.—Lessing's Nathan Der Weise (two hours); Goethe's Herman and Dorothea (two hours.)

French.—Lamartine's Cromwell; Moliere's Le Misanthrope. (Four hours.)

Early English.—Mätzner's Altenglische Sprachproben; Lounsbury's History of the English Language; special Grammatical Analyses of Early English Authors. (Four hours.)

Rhetoric.—One Essay on an Assigned Subject.

History.—Middle Ages, continued. Special topics: Philip the Fair; The Hundred Years' War; Louis XI. and Charles the Bold; Analysis of Feudal Institutions. References: Guizot's History of Civilization; Kitchen's, Guizot's, Martin's and Michelet's histories of France; Hallam's Middle Ages; Secretan's Feudalite; Warburton's Edward III. One Theme for the last two terms of the year. (Four hours.)

JUNIOR YEAR.

FIRST TERM.

French.—Corneille's Cid; George Sand's Marianne. (Three hours.)

English Literature.—General survey of the subject: English social and literary history from Piers Plowman to Shakespeare, on the basis of Morley's First Sketch; the influence of Italy and the universities; the beginnings of popular literature; special study of Chaucer, Spenser, and Shakespeare. (Three hours.)

History.—Seebohm's Era of the Protestant Revolution, and Gardiner's Thirty Years' War. Special library work on topics connected with these eras. One Theme or Lecture from each student on some topic assigned. (Three hours.)

Rhetoric.—One Essay.

Electives.—Six hours required.

SECOND TERM.

French.—Moliere's Les Femmes Savantes; Lamartine's Lyric Poetry; Lectures on the history of the Language. (Three hours.)

English Literature.—General survey, continued: Readings in the Dramatists from Shakespeare to Shirley; the Classical Movement from Cowley to Johnson; Growth of Popular Literature; special study of Milton, Pope, Thomson, and the Ballads. (Three hours.)

History.—Gardiner's Puritan Revolution; Special Topics: Petition of Right; Cromwell, Laud, and Strafford; Religious Legislation in the Reigns of Charles II. and James II.; Revolution of 1688. One Theme or Lecture during this (or following) term. (Three hours.)

Rhetoric.—One Essay.

Electives.—(Six hours.)

THIRD TERM.

Italian.—Italian Grammar and Exercises; Manzoni's I Promessi Sposi. (Three hours.)

English Literature.—General survey, continued to living writers; Study

of the Romantic, Nature, and Life Schools; Triumph of the People's Literature; Progress of English Prose; Lectures on American Literature; special study of Keats, Shelley, Byron, Wordsworth, and Tennyson. (Three hours.)

History.—Morris' Age of Anne: Library work with special reference to moral and social conditions; the political bearings of the literature, the Sacheverell trial, and the Union of England and Scotland. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Six hours.)

SENIOR YEAR.

FIRST TERM.

Political Economy.—General study of the subject, on the basis of F. A. Walker's larger work, with special reading and reports on topics assigned in Mill, Cairns, Jevons Sidgwick, Roscher, Newcomb, Perry, and other writers. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Eight hours are required.)

Thesis.—Out of the above thirteen elective hours three may be given, if the student so elect, to the investigation of some subject which shall be thoroughly and elaborately discussed in a graduation thesis.

SECOND TERM.

Political Economy.—A more thorough study of selected topics, with special reference to current practical questions. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Eight hours.)

Thesis.—As in First Term.

THIRD TERM.

International Law.—Outline study of the subject, with special reference to existing relations among the Great Powers of Europe. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Eight hours.)

Thesis.—As in First and Second Terms.

THE INDUSTRIAL COLLEGE.

The purpose and scope of this College are defined by the Act of Congress providing for its endowment, which declares that in it "the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanical arts, in such manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Accordingly great prominence is given to the natural and physical sciences in the Scientific Course, and to their applications in the special elective courses and the courses in Civil Engineering. Two lines of Agricultural instruction (chemical and biological), and one in applied electricity, are offered.

The degrees conferred in this College are Bachelor of Science (B.Sc.), Bachelor of Agriculture (B.A.G.), and Bachelor of Civil Engineering (B.C. E.).

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

- Mathematics* I. II. III.—(Five hours.)
German I.—Grammar and Reader.—(Five hours.)
Rhetoric I.—Exercises, Theme, etc.—(Two hours.)
Chemistry I.—Metallic Elements.—(Two hours.)
Physics I.—(Two hours.)

SOPHOMORE YEAR.

- French* III.—Grammar and Reader.—(Four hours.)
Rhetoric VII.—Advanced Course.—(Two hours.)
German II.—Readings from Authors.—(Four hours.)
Chemistry II. III.—(Three hours.)
Physics II.—(Two hours.)

JUNIOR YEAR.

- Geology* I. II. III.—(Three hours.)
Zoology I. II. III.—(Four hours.)
Botany I. II. III.—(Two hours.)
French VI.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(Two essays and one oration.)
Electives.—(Two hours.)

SENIOR YEAR.

- English Literature* IV.—(Three hours.)
Political Science I, III, IV.—(Three hours); *or*
Philosophy I, II, III.—(Three hours.)
Geology VI, VII, VIII.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(One Oration each term.)
Electives.—(Six hours.)

ELECTIVE COURSES IN SCIENCES.

In order to accommodate students desiring to give especial attention to particular subjects, the following elective courses are offered:

A. ELECTRICAL COURSE.*

FRESHMAN YEAR.

Identical with the General Course.

SOPHOMORE YEAR.

- Analytical Geometry and Calculus.—(Six hours.)
 French III.—(Four hours.)
 Graphics (Two hours.)
 Chemistry II, and III.—(Three hours.)
 Physics, II.—(Two hours.)

JUNIOR YEAR.

- Mathematical Theory of Electricity and Magnetism.—(Four hours.)
 Physics, III.—(Three hours.)
 Descriptive Geometry.—(Two hours.)
 English Literature, IV.—(Three hours.)
 Military Science.—(One hour.)
 Rhetoric.—Two Essays and One Oration.
 Elective.—(Three hours.)

SENIOR YEAR.

- Applied Electricity, VII.—(Four hours.)
 Thesis.—(Four hours.)
 Political Science, II, III, IV., (three hours;) *or*
 Philosophy I, II, III.—(Three hours.)
 Military Science.—(One hour.)
 Rhetoric.—One Oration each term.
 Electives.—(Three hours.)

*Students entering this course may offer an equivalent in French or German in place of Latin.

B. CHEMISTRY.

Freshman and Sophomore year identical with general course.

JUNIOR YEAR.

Chemistry IV. V. and VI.—(Eight hours.)

English Literature IV.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—(Two essays and one oration.)

Electives.—(Four hours.)

SENIOR YEAR.

Chemistry VII. and XI.—(Three hours.)

Chemistry XIV. or Thesis.—(Five hours.)

Political Science II. III. IV. or Philosophy I. II. III.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—One Oration each term.

Electives.—(Four hours.)

C. AGRICULTURAL CHEMISTRY.

Freshman and Sophomore year identical with general course.

JUNIOR YEAR.

Chemistry XII. V. and VI.—(Eight hours.)

English Literature IV.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—(Two essays and one oration.)

Electives.—(Four hours.)

SENIOR YEAR.

Chemistry VII. and XI.—(Three hours.)

Chemistry XIV. or Thesis.—(Five hours.)

Political Science II. III. IV. or Philosophy I. II. III.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—(One Oration each term.)

Electives.—(Four hours.)

D. GEOLOGY.

Freshman and Sophomore years identical with general course.

JUNIOR YEAR.

Geology I. II. III. IV. and V.—(Six hours.)

Zoology I. II. III.—(Four hours.)

Botany.—(Two hours.)

Military Science.—(One hour.)

French.—(Three hours.)

SENIOR YEAR.

- Geology VI. VII. VIII. and IX.—(Six hours.)
 Political Science II. III. IV. or Philosophy I. II. III.—(Three hours.)
 English Literature IV.—(Three hours.)
 Military Science.—(One hour.)
 Electives.—(Three hours.)

Students with a biological preparation in the Freshman and Sophomore years may also be admitted to the elective geological work of the Junior and Senior years.

E. BOTANY.

FRESHMAN YEAR.—Students must take Botany I. II. and III. instead of Physics I. Otherwise as in General Course.

SOPHOMORE YEAR.—Students must take Botany IV. and Zoology I., II., III. instead of Physics II. and Chemistry II. and III. Otherwise as in General Course.

JUNIOR YEAR.

- Botany V. VI. VII. or VIII.—(Six hours.)
 Geology I. II. III.—(Three hours.)
 Military Science.—(One hour.)
 Rhetoric.—(One Oration each term.)
 Electives.—(Six hours.)

F. ZOOLOGY.

FRESHMAN YEAR.—Students must take Botany I. II. III. instead of Physics I. Otherwise as in General Course.

SOPHOMORE YEAR.—Students must take Zoology I. II. III. and Physiology, instead of Chemistry and Physics. Otherwise as in General Course.

JUNIOR YEAR.

- Zoology IV. V. VI. VII.—(Six hours.)
 Geology I. II. III.—(Three hours.)
 Military Science.—(One hour.)
 English Literature IV.—(Three hours.)
 Rhetoric.—Two Essays and One Oration.
 French IV.—(Three hours.)

SENIOR YEAR.

- Zoology VIII. IX. or X. (including Thesis.)—(Nine hours.)
 Political Science II. III. IV. or Philosophy I. II. III.—(Three hours.)
 Military Science.—(One hour.)
 Rhetoric.—(One oration each term.)
 Electives.—(Three hours.)

G. AGRICULTURAL BIOLOGY.

FRESHMAN YEAR.—Students must take Botany I. II. and III. instead of Physics I. Otherwise as in General Course.

SOPHOMORE YEAR.—Students must take Zoology I. II. III. and Physiology instead of Chemistry and Physics. Otherwise as in General Course.

JUNIOR YEAR.

- Embryology.—(Three hours.)
- Entomology IV.—(Three hours.)
- Geology I. II. III.—(Three hours.)
- Military Science.—(One hour.)
- English Literature IV.—(Three hours.)
- Rhetoric.—(Two Essays and One Oration.)
- Electives.—(Three hours.)

SENIOR YEAR.

- Animal Anatomy and Physiology.—(Five hours.)
- Lectures on Soils, Irrigation, Drainage and Cultivated Plants.—(Two hours.)
- Thesis.—(Two hours.)
- Political Science I. II. III. or Philosophy I. II. III.—(Three hours.)
- Military Science.—(One hour.)
- Rhetoric.—One Oration each term.
- Electives.—(Three hours.)

CIVIL ENGINEERING COURSE.

The Freshman year is identical with the General Scientific Course.

SOPHOMORE YEAR.

FIRST TERM.

- Graphics*.—Drafting instruments and operations; Plans, Problems; Elementary Descriptive Geometry, Recitations, etc. (four hours), with four hours of drawing.
- Rhetoric*.—One Theme.
- Modern Language* II. or III.—German or French (four hours).
- Physics* II.—(Two hours.)

SECOND TERM.

- Mathematics* IV. and V.—As in First Term (six hours).
- Graphics*.—Descriptive Geometry, (recitations four hours), with four hours of drawing.
- Rhetoric*.—One theme.
- Modern Language* II. or III., or in the first term (four hours).
- Physics* II.—(Two hours.)

THIRD TERM.

- Mathematics* IV. and V., or in the first two, (six hours).
- Graphics*.—Shades and Shadows; Linear perspective; Recitations four hours, with four hours of drawing.

Rhetoric.—One theme.

Modern Language II. or III., as in the first term, (four hours).

Physics II.—(Two hours.)

JUNIOR YEAR.

FIRST TERM.

Mathematics.—Todhunter's Analytical Statics, (four hours).

Surveying.—Johnson's Land Surveying; recitations (two hours); field work with compass and transit. Platting surveys and computations (six hours).

History I.—With the Freshman class of the Literary Course (four hours).

Military Science.—(One hour.)

Geology I.—Topographical Geology (Three hours).

Rhetoric.—One Oration.

SECOND TERM.

Mathematics.—Todhunter's Analytical Statics (four hours).

Stereotomy.—Warren's Stone Cutting; Recitations (four hours), with four hours of drawing.

History I.—As in the first term, (five hours.)

Military Science.—(One hour.)

Rhetoric.—One Essay.

Electives.—(Three hours.)

THIRD TERM.

Mathematics.—Method of Least Squares, (four hours).

Surveying.—Higher Surveying and Levelling; Field work with Level and Plane-table; Recitations (three hours) with (six hours of field work.)

History I.—As in the first term, (four hours.)

Military Science.—(One hour.)

Rhetoric.—One Oration.

Electives.—(Three hours.)

SENIOR YEAR.

FIRST TERM.

Field Engineering.—Location of Line of Railroad, with calculations of Excavations and Embankments; Henck's Field Book for Railroad Engineers. Searle's Railroad Spiral. Until November. (Twenty hours.)

Civil Engineering.—(From November.) Strength of Materials; Recitations (four hours), Laboratory work (three hours), Bridges and Roofs (four hours.)

Thesis.—(Five hours)

Rhetoric.—One Oration.

Elective.—(Three hours.)

SECOND AND THIRD TERMS.

Civil Engineering.—Strength of Materials (four hours), Bridges and Roofs (four hours), Laboratory work (three hours).

Thesis.—(Five hours.)

Rhetoric.—One Oration each term.

Electives.—(Three hours.)

 ELEMENTARY AGRICULTURAL COURSE.

A two-years course in Elementary Agriculture is offered to those who are not able to take the full course. The requirements for admission to the studies of this course are the same as for admission to the Latin School, viz:

English Grammar, Arithmetic. (Fractions, denominate numbers, percentage and its applications, analysis and proportion.) *Geography, History of the United States*.

The arrangement of studies for the two years is as follows:

FIRST YEAR.

Mathematics.—Elementary Algebra. (Five hours.)

Elementary Botany.—(Two hours in Spring term.) (One hour.)

Zoology.—General and Comparative. (Four hours.)

Agricultural.—Lectures on Elementary Topics.

English.—Text-book and Practical Exercises. (Two hours.)

SECOND YEAR.

Botany and Horticulture.—Fertilization, Propagation, etc. (Two hours.)

Animal.—Anatomy and Physiology. (Five hours.)

Entomology.—Structure and Development of Insects. (Three hours.)

Agriculture.—Lectures on Soil, Drainage and Cultivated Plants. (Two hours.)

Chemistry.—Remsen's Introduction. (Two hours.)

Physics.—Stewart's Lessons. (Two hours.)

 DEPARTMENTS OF INSTRUCTION.

ELECTIVES.

In each course, up to the end of the Sophomore year, the studies are prescribed; but in the Junior and the Senior year they are largely elective. This arrangement is designed to enable those students who may desire it, to concentrate their work upon special lines, or subjects. In addition to the elective studies which appear below, the required subjects of other Courses in either college are open to each student. But it is expected that in general all who have mastered the required work of the first two years

will avail themselves of the special advanced studies of some Department. The following rules regarding the choice of electives are in force:

1. No study can be elected unless the professor in charge deem the student qualified to pursue it.
 2. No electives shall be changed after two weeks of the term have passed.
 3. No elective need be taught unless at least three students elect it.
- The special subjects at present offered as electives, and the order in which they should be pursued, together with the required studies which lead up to them, are shown under the following summary of the Departments. Elective studies are distinguished by an asterisk.

PHILOSOPHY.

- I. General Psychology: Nervous System, Sense Organs, Psycho-physical Methods and Results, Instincts, Consciousness, Attention, Association, Memory, Emotions, Will. *References:* Ladd, Wundt, Bain, Sully, Ribot, Periodicals.—Junior and Senior Year: First and second terms, three hours.
 - II. Logic: (a) Jevon's Elements and Fowler's Inductive Logic. (b) Mills' Logic and Jevon's Principles of Science.—Junior or Senior Year: second and third terms, three hours.
 - III. Ethics: General study of the principal theories.—Junior or Senior Year: third term, three hours.
 - IV. *History of Physiology: Outline study of the development and relations of systems from Thales to Spencer.—During the year, three hours.
 - V. *Special Studies: In Idealism (Plato): first term. In Criticism (Kant): second term. In Evolution (Spencer): third term. Senior year, two hours.
 - VI. *Experimental Psychology: Lectures and Laboratory work, during the Senior year, two hours.
 - VII. *History of Education: Senior year; first term, two hours.
 - VIII. *Pedagogical Psychology: Senior year, second and third terms, two hours.
 - IX. *Aesthetics: First term, three hours.
- * Courses VI., VII., VIII. and IX. will not be given in 1889-90.

GREEK LANGUAGE AND LITERATURE.

- I. Xenophon: Hellenica, Bks. V., VI.; Greek Prose.—*Freshman Year:* first and second terms, five hours. Principal BENNETT.
- II. Lysias: Select Orations; Greek Prose.—*Freshman Year:* third term, five hours. Professor McMILLAN.
- III. Homer: Iliad.—*Sophomore Year:* first term, four hours, T., W., Th., F. Professor McMILLAN.
- IV. Thucydides, Bk. VII.—*Sophomore Year:* second Term, four hours T., W., Th., F. Professor McMILLAN.
- V. Plato; Apology and Crito.—*Sophomore Year:* third term, four hours, T., W., Th., F. Professor McMILLAN.

- VI. Sophocles: *Antigone*; Study of the Drama.—*Junior Year*: first term three hours, M., W., F. Professor McMILLAN.
- VII. Demosthenes: Select orations; Greek antiquities.—*Junior Year*: second term, three hours, M., W., F. Professor McMILLAN.
- VIII. Plato: *Phaedo*.—*Junior Year*: third term, three hours. Professor McMILLAN.
- IX. *Hellenistic Greek: The Acts; selections from the Epistles.—*Junior Year*: first term, two hours, M., W., F. Professor McMILLAN.
- X. *Greek Tragedy, or Comedy; Greek Theatre.—*Junior Year*: third term, two hours, T., Th. Professor McMILLAN.
- XI. *Lyric Poetry, Lyric Anthology.—*Junior Year*: second term, two hours, T., Th. Professor McMILLAN.
- XII. *History of Greek Philosophy...*Senior Year*: third term, two hours, T., Th. Professor McMILLAN.
- XIII. *Greek Grammar; Sounds and Inflections of the Language, from the comparative point of view; Lectures, with the reading of a text (for the coming year, Homer's *Odyssey*).—*Senior Year*: first and second terms, two hours, Th., F. Principal BENNETT.
- XIV. *Greek Literature, Lectures and Recitations: first and second terms three hours, M., W., F. Professor McMILLAN.

 LATIN LANGUAGE AND LITERATURE.

- I. Virgil: *Aeneid*, and Eclogues; Latin Syntax and Prosody.—*Freshman Year*: First and second terms, five hours. Professor BARBER.
- II. Cicero: *De Senectute*; Latin Grammar.—*Freshman Year*: third term, five hours. Professor BARBER.
- III. Livy: book XXI. XXII.; Quintus Curtius at Sight.—*Sophomore Year*: first and second terms, four hours, T., W., Th., F. Professor BARBER.
- IV. Horace: Selected Odes; Latin Prosody.—*Freshman Year*: third term, four hours, T., W., Th., F. Professor BARBER.
- V. *Cicero: *Epistolæ*.—*Junior Year*: first term, two hours, T., Th. Professor BARBER.
- VI. Horace: *Satires* and *Epistles*.—*Junior Year*: first term, three hours, M., W., F. Professor BARBER.
- VII. *Tacitus: *Annals*.—*Junior Year*: second term, two hours, T., Th. Professor BARBER.
- VIII. Plautus: *Captivi*; Prosody.—*Junior Year*: second term, three hours, M., W., F. Professor BARBER.
- IX. *Juvenal, or Catullus.—*Junior Year*: third term, two hours, T., Th. Professor BARBER.
- X. *Quintilian; Lectures in Roman Literature. *Junior Year*: third term, two hours, T., Th. Professor BARBER.
- XI. Tacitus: *Germania* and *Agricola*.—*Junior Year*: third term, three hours, M., W., F. Professor BARBER.
- XII. *Terence, or Seneca.—*Junior Year*: first term, two hours, T., Th. Professor BARBER.

- XIII. *Hliny's Letters; Roman Law.—*Senior Year*: second term, two hours, T., Th. Professor BARBER.
- XIV. *Lecture on Antiquities.—*Senior Year*: third term, one hour, Th., Professor BARBER.
- XV. *Latin Composition and Conversation. Throughout the year, one hour.
- XVI. *Latin Grammar. Sounds and Inflections of the Language from the comparative point of view. Lectures followed by practical exercises in connection with the reading of a text (for the coming year Aulus Gellius's *Noctes Atticæ*). Throughout the year, two hours, T., Th. Principal BENNETT.
- XVII. *Roman Inscriptions; Study of Select Inscriptions, second term, one hour. Professor BARBER.

MATHEMATICS.

- I. Spherical Geometry and Trigonometry.—*Freshman Year*: first term, five hours. Professor HITCHCOCK and Instructor HODGMAN.
- II. Trigonometry with higher Algebra.—*Freshman Year*: second term, five hours. Professor HITCHCOCK and Instructor HODGMAN.
- III. Conic Sections and Analytical Geometry.—*Freshman Year*: third term, five hours. Professor HITCHCOCK and Instructor HODGMAN.
- IV. Analytical Geometry.—*Sophomore Year*: first term, five hours. Professor HITCHCOCK.
- V. Calculus.—*Sophomore Year*: three hours, through the year, M., W., F. Professor HITCHCOCK.

CHEMISTRY.

- I. Study of the metallic elements and their more common compounds with five hours of laboratory practice per week for one year, two hours, T., Th., 11-30. Professor NICHOLSON.
- II. Continuation of course I. with special study of characteristic reactions, with seven hours of laboratory practice per week for one year, two hours, M., W., 9-30. Professor LLOYD.
- III. The elementary principles of Chemical Philosophy, one lecture per week throughout the year, one hour, Friday 9-30. Professor LLOYD. (Must be preceded by I.)
- IV. Gravimetric and volumetric methods of quantitative analysis, with fifteen hours of laboratory practice per week for one year, five hours, M., W., 11-30. Professor LLOYD. (Must be preceded by I. and II.)
- V. Lectures on the History of Chemistry, with special reference to the work of Eminent Chemists, one hour per week throughout the year, one hour, Friday 11-30. Professor LLOYD.
- VI. Theoretical Chemistry, two lectures per week throughout the year, two hours, M., W., 9-30. Professor NICHOLSON. (Must be preceded by I. II. and III.)

- VII. Organic Chemistry: two lectures with two hours of laboratory practice per week for one year, two hours, T., Th., 9-30. Professor LLOYD. (Must be preceded by I. II. and IV. or XII.)
- VIII. Photography: With special reference to the Chemical Principles involved. One term, two hours. Professor NICHOLSON and Laboratory Assistant. (Must be preceded by I. and II.)
- IX. Assaying: Five assays of ores of gold, silver, lead, etc., one term two hours. Professor NICHOLSON and Laboratory Assistant. (Must be preceded by I. and II.)
- X. Proximate Quantitative Analysis and Toxicology, including Urinalysis, one term, two hours. Professor NICHOLSON and Laboratory Assistant. (Must be preceded by I. and II.)
- XI. Reading of current chemical literature and reports thereon one hour. Professor NICHOLSON. (Must be preceded by I. II. and IV. or V.)
- XII. Method of Analysis, gravimetric and volumetric, adapted to the investigations of agricultural problems, with fifteen hours of laboratory practice per week for one year, five hours, 11-30. Professor NICHOLSON. (Must be preceded by I. and II. Required of Agricultural specials.)
- XIII. Thermo-Chemistry: Two lectures with six hours of laboratory practice per week for one year, two hours. Professor NICHOLSON. (Must be preceded by I. and II.)
- (This course will be given in 1890-91.)
- XIV. Investigation of important chemical problems. Professors NICHOLSON and LLOYD. Must be preceded by I. II. III. (IV. or XII.) VI. VII. and XI.

 PHYSICS.

- I. Experimental Physics: Twice weekly.—*Freshman Year*: Course I. will consist of Experimental Lectures and Recitations on Mechanics, Sound and Heat, supplemented with exercises in the Laboratory.
- II. Experimental Physics: Twice weekly.—*Sophomore Year*: Course II. is a continuation of course I. and includes Light, Electricity and Magnetism. Stewart's lessons in Elementary Physics or an equivalent is required for admission to these Courses.
- III. Physical Laboratory: Six hours weekly.—*Junior Year*: Course III. will cover special problems involving exact measurements, and is supplemented by readings on the problems assigned.
- IV. *Heat: Advanced Laboratory Course: Six hours weekly. Course IV. includes advanced work on special problems in Thermometry. Expansion, Calorimetry, Vapor Density and Tension, Conduction, Radiation and the Applications of Thermodynamics. Special attention may be given to problems relating to Meteorology.
- V. *Light: Advanced Laboratory Course: six hours weekly. Course V. will cover special studies and measurements in Photometry, Lenses, Refraction, Interference, Diffraction, Polarization, Spectroscopy and Spectrophotometry.

- VI. *Electricity: Advanced Laboratory Course: Six hours weekly. Course VI. will be devoted more especially to the determination and comparison of Electrical Constants and the testing of Electrical Instruments. Special attention may be given to Electro-Optics.
- VII. Applied Electricity: Ten hours weekly.—*Senior Year*: Course VII. includes tests of Dynamo-Electric machinery, Electric Transmission of Power, Electric Lines and Lamps, and experimental studies in the processes of Electro-Metallurgy, Electric Welding and Electric Smelting. Course VI. should be taken in addition to this Course.
- VIII. Mathematical Theory of Electricity and Magnetism: Four times weekly.—*Junior or Senior Year*: Course VIII. will require a thorough knowledge of the Calculus and its application and will be taken from Maxwell's Electricity and Magnetism.
- IX. Mathematical Physics: Four times weekly.—*Junior or Senior*: Course IX. will cover the more general applications of the Calculus to the solution of elementary problems in the Kinematics and Dynamics of solid and fluid bodies, with applications in Sound, Light and Thermodynamics. Reference books:—Minchin Uniplanar Kinematics, Maxwell's Heat, Briot's Thermodynamique, Lloyd and Airy on Light, and the *Vorlesungen ueber Mathematische Physik* by F. Neumann and by Riemann.
- X. *Advanced Physics: Readings and Discussions: twice weekly. Course X. is intended for graduate and advanced students desiring to devote special attention to Theoretical Physics. Students will read from Kirchhoff, Somoff and Thomson and Tait on Mechanics; Rayleigh, Heimboltz, and Lamb on Sound and Fluid Motion; Briot, Verdet, Clausius and Fourier on Thermodynamics and Conduction; Parkinson, Kirchhoff, Thomson, Rayleigh, Verdet and Billet on Light; and Maxwell and Mascart and Joubert on Electricity and Magnetism.

GEOLOGY AND ALLIED SCIENCES.

Geology.—Professor HICKS.

All courses three hours each week.

- I. Topographic Geology: Junior year, first term.
- II. Descriptive Mineralogy and Lithology: Senior year, second term.
- III. Determinative Mineralogy: Junior year, third term.
- IV. *Crystallography: Junior year, first term.
- V. *Petrology: Junior year, second and third terms.
- VI. Dynamical and Structural Geology: Senior year, first term.
- VII. Historical Geology: Senior year, second term.
- VIII. Palæontology: Senior year, third term.
- IX. *Geological Reports, Cartographic Methods, Special Problems, Local Geology, and Advanced Petrology: Senior year, three terms.

Zoology.—MR. SHIMEK.

- I. General study of types of the Invertebrates. *Sophomore Year*: first term, four hours.
 - II. General study of types of the Vertebrates. *Sophomore Year*: second term, four hours.
 - III. Comparative Zoology, with an introduction to Systematic Zoology and Field Work. *Sophomore Year*: third term, four hours.*
- Students in the general Scientific Course will take courses I., II. and III. in the Junior year.
- IV. Entomology: Structure and development of Insects, with systematic work. *Junior Year*: first and third terms, three hours.
 - V. Comparative History of Vertebrates: *Junior Year*: first and second terms, three hours.
 - VI. Conchology, etc. (For those who specialize in Geology this will be modified to form a preparatory course to Paleontology.) *Junior Year*: second term, three hours.
 - VII. Fishes and Reptiles: Structural and systematic work. *Junior Year*: third term, three hours.
 - VIII. Advanced Comparative Anatomy and Histology.
 - IX. Systematic study of any selected group of animals.
 - X. Special study of local or state faunas: Courses VIII., IX. and X. are four hours each and extend throughout the Senior year.
- Seniors who elect Zoology are expected to select one of these three courses, though other equivalents in Zoology may be substituted upon consultation with the Instructor.

BOTANY AND HORTICULTURE.

Botany.—Professor BESSEY.

- I. Vegetable Anatomy, with five hours in Laboratory; first term, two hours.
- II. Vegetable Physiology, with five hours in Laboratory; second term, two hours.
- III. Special Anatomy and Physiology of the lower plants (Protophytes to Carpophytes), with five hours in the Laboratory; third term.
- IV. Special Anatomy and Physiology (Bryophytes to Phanerogams), with five hours in Laboratory; two hours.
- V. *Study of the structure or physiology of one plant. Open to those having completed courses I. to V.—*Junior and Senior Years*.
- VI. *Comparative Anatomy of particular tissues or organs.—*Junior or Senior Years*.
- VII. *Study of a selected group of plants, including structure and classification.—*Junior and Senior Years*.
- VIII. *Study of the flora of Lincoln, including collections of specimens and preparation of a catalogue.—*Junior and Senior Years*.

Horticulture.—Professor BESSEY.

- I. The Fertilization and Propagation of Plants; Hybridization; Diseases of Plants; two hours, with Laboratory work.
- II. Variation of Plants; Improvement of Varieties; Plant Breeding; Diseases of Plants; two hours, with Laboratory work.
- III. Plant Food; Plant Growth; Diseases of Plants. Lectures on the Principles of Landscape Gardening; two hours, with Laboratory work.

MODERN LANGUAGES, SANSKRIT, AND HEBREW.

- I. German: Grammar and Reader, with especial reference to correct pronunciation, mastery of the essentials of grammar, critical and exact translation, and the relations of German with English.—*Freshman Year*: first, second, and third terms, five hours. Professor EDGREN.
- II. German: Readings from select authors, both with preparation and at sight, with philologic and literary lectures.—*Sophomore Year*: first, second, and third terms, five hours. Professor EDGREN.
- III. French: Grammar and Reader, with special reference to correct pronunciation, mastery of the essentials of grammar, critical and exact translation, and the relations of French with Latin and English.—*Sophomore Year*: first, second, and third terms, four hours, M., T., W., Th. Dr. FONTAINE.
- IV. *German: Advanced Reading; Lectures on General Philology and Literature.—*Junior and Senior Years*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- V. *German Conversation and Composition.—*Junior or Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- VI. French: Corneille, Moliere, and Lamartine.—*Junior Year*: first and second terms, three hours, M., W., F. Dr. FONTAINE.
- VII. Italian: Grammar and Reader.—*Junior Year*: third term, three hours, M., W., F. Professor EDGREN.
- VIII. *French: Advanced Reading, or Conversation and Composition.—*Senior Year*: first, second, and third terms, two hours, T., Th. Dr. FONTAINE.
- IX. *Sanskrit: Grammar and Reader.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- X. *Italian: Select authors.—*Senior Year*: first and second terms, two hours, T., Th. Dr. FONTAINE.
- XI. *Spanish: Grammar and Readings.—*Junior and Senior Years*: second and third terms, two hours, T., Th. Dr. FONTAINE.
- XII. *Scandinavian Languages: Special courses in Swedish and Danish (designed primarily for students of Scandinavian birth who wish to read critically their native literature; but elementary instruction will be given if desired).—*Junior Year*: first and second terms, two hours. Professor EDGREN.

- XIII. *Sanskrit: Advanced Course.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- XIV. *Hebrew; Elementary Course.—*Senior Year*: first, second, and third terms, two hours. Professor EDGREN.

ENGLISH LITERATURE, RHETORIC, AND ORATORY.

- I. Rhetoric: Practical Exercises in Criticism and Composition; Themes and Studies in Style; Argumentative Themes and Studies in Oratory.—*Freshman Year*: first, second, and third terms, two hours, T., Th. Adj. Prof. HUNT.
- II. Anglo-Saxon and Early English: Historical Study of English by principal authors from Cædmon to Chaucer.—*Sophomore Year*: first, second, and third terms, three hours, M., W., F. Professor SHERMAN.
- III. *Anglo-Saxon and Early English: Special Authors.—*Junior Year*: first term, two hours, T., Th. Professor SHERMAN.
- IV. English Literature, Introductory Course: General Survey from Chaucer to the modern period, with special study of chief authors, origin of various schools, and influence of other literatures.—*Junior Year*: first, second, and third terms, three hours, M., W., F. Professor SHERMAN.
- V. *Shakespeare, First Course: Macbeth; Hamlet; Othello.—*Junior Year*: first, second and third terms, three hours, M., W., F. Professor SHERMAN.
- VI. *Shakespeare, Advanced Course: King Lear; Merchant of Venice; Coriolanus.—*Senior Year*: first, second and third terms, three hours, T., Th., F. Professor SHERMAN.
- VII. *Rhetoric and Oratory, Advanced Course: Studies of best Stylists and Models; Practical Training in the formation of a correct style, whether in the essay or oration.—*Junior or Senior Year*: first, second and third terms, two hours, T. Th. Adj. Prof. HUNT.
- VIII. *English Literature, Advanced Course: Critical study of select authors, with reference to the genesis and development of modern Taste and Standards; Lectures on Æsthetics Resources of Style, and Comparison of Literatures; Practical Criticism of Current Literature.—*Senior Year*: first term, four hours, M., T., W., Th. Professor SHERMAN.
- IX. *American Literature.—*Senior Year*: second and third terms, four hours, M., T., W., Th. Professor SHERMAN.
- X. *Browning Course: Pippa Passes, Paracelsus, Sordello.—*Senior Year*: second and third terms, two hours, T., Th. Professor SHERMAN.

HISTORY.

- I. Ancient History: Epochs of Grecian, Persian, and Roman History; Lectures on Athenian, Spartan, and Roman Constitutions.—*Freshman Year*: first, second, and third terms, four hours, M., W., F. Professor HOWARD.

- II. Ancient History: The Early Empire, from Augustus to Constantine.—*Sophomore Year*: first term, four hours, M., W., F. Professor HOWARD.
- III. The Middle Ages: From Constantine to the Crusades; The Hundred Years' War; Louis XI. and Charles the Bold.—*Sophomore Year*: second and third terms, three hours, M., W., F. Professor HOWARD.
- IV. *History of the Renaissance: Revival of Literature; Dante, Petrarch, Boccaccio; Of Learning; Study of Latin and Greek, Universities, Printing, etc.; Of Art; Michael Angelo, Raphael da Vinci; Politics and Religion; Machiavelli, Savonarola, etc. *References*: Symonds, Pater, Grimm, Villari, Roscoe, Burekhardt, etc.—*Junior or Senior Year*: first term, four hours. Adj. Prof. CALDWELL.
- V. European History, 1500-1800: Protestant Revolution; Thirty Years' War; Puritan Revolution; Age of Anne.—*Junior Year*: first, second and third terms, three hours, M., W., F. Adj. Professor CALDWELL.
- VI. *The French Revolution: Ancient Regime, Rousseau, Voltaire, Diderot, National and Legislative Assemblies; Jacobin Conquest, Thermidor, Vendemiaire; Eighteenth Fructidor, Eighteenth Brumaire.—*Junior or Senior Year*: second and third terms, three hours, T., Th., F. Professor HOWARD.
- VII. *Ancient Law: A Study of the Genesis of Aryan Institutions in the works of Maine, Hearn, Coulanges, Laveleye, Morgan, McLennan, Spencer, etc.—*Junior or Senior Year*: first term, three hours, M., W., F. Professor HOWARD.
- VIII. *Growth of the English Constitution: A Comparative Study of the Development of English Institutions from Tacitus to the present time, in the works of Stubbs, Waitz, Kemble, May, Bagehot, Cox, the Collections of Schmidt and Thorpe, the Rolls Series, etc.—*Junior or Senior Year*: first, second, and third terms, five hours. (This course will be given in 1890-91, but not in 1889-90.) Professor HOWARD.
- IX. *Political History of the Nineteenth Century: Reform Bills of 1832 and 1867; growth of British India; Corn Laws and Rise of Free Trade; French Revolution; Rise of Prussia; German Empire; growth of Italy; Minor Powers.—*Junior or Senior Year*: first term, three hours, M., W., F. Adjunct Professor CALDWELL.
- X. *American History: Discoveries, Explorations, Settlements, with related European history; Analysis of forms of Colonial government; Establishment of Local Institutions in the Colonies, North and South; Plans of Union among the Colonies; Independence; Confederation.—*Junior or Senior Year*: first, second, and third terms, five hours. (This course will be given in 1889-90, but not in 1890-91. Professor HOWARD.
- XI. *American History: Formation of the Constitution, Ratification, Political and Constitutional development to Jackson's Administration; Political and Constitutional development to the Civil War; Reconstruction. *Authorities*: Bancroft, Von Holst, Curtis, Elliot, Federalist, Greeley, Wilson, Statesmen Series, Draper, Ben-

ton, Poore, etc.—*Junior or Senior Year*: first, second, and third terms, five hours. Adjutant Professor CALDWELL.

- XII. Comparative Constitutional Law: Third term, three hours. Adj. Professor CALDWELL.

ECONOMIC AND POLITICAL SCIENCE.

- I. Constitutional Law: General Principles of Civil Government, with detailed study of the Constitutions of this state and the United States.—*Junior Year*: third term, two hours, T., Th., F. ADJUNCT PROFESSOR CALDWELL.
- II. Political Economy: General Study of the Subject.—*Senior Year*: first term, three hours, M., W., F. Dr. WARNER.
- III. Political Economy: A more thorough study of selected topics.—*Senior Year*: second term, three hours, M., W., F. Dr. WARNER.
- IV. International Law: Outline study of the subject, with special reference to existing relations among the Great Powers.—*Senior Year*: third term, three hours, M., W., F. (Other work in Political Science may be substituted for this if desired.)
- V. Private Corporations: Origin, history, and present status of Joint Stock concerns, including railroads. Class lectures and topical reports from students.—*Senior or Graduate Study*: two hours, whole year. Dr. WARNER.
- VI. *Municipal Administration: Comparative study of city governments, with special reference to American shortcomings in this matter.—*Senior or Graduate Study*: two hours, fall term. Dr. WARNER.
- VII. *Social Science: A short study of the chief data of Sociology. (Optional with this may be offered a course of public or class lectures on modern charities.)—*Senior Year*: third term, three hours. Dr. WARNER.

MILITARY SCIENCE.

- I. Infantry and Artillery Tactics. Professor GRIFFITH.
- II. Elementary Principles of the Art of War. Professor GRIFFITH.
- III. *Field Fortification.—*Junior or Senior Year*: first term, two hours. Professor GRIFFITH.
- IV. *Art and Science of War.—*Junior or Senior Year*: second term, two hours. Professor GRIFFITH.
- V. *Manufacture and Use of Gunpowder; Manufacture of Small Arms, Cannon, Torpedoes, and their Use; Strategy and Tactics, Campaigns, etc.; Logistics: Customs of the Service; Lectures.—*Junior or Senior Year*: third term, two hours. Professor GRIFFITH.

CIVIL ENGINEERING.—Associate Professor LITTLE.

- I. Descriptive Geometry; Shades and Shadows; Linear Perspective.—*Sophomore Year*: second and third terms, eight hours.

- II. Stereotomy; Stone Cutting.—*Junior Year*: winter term, eight hours.
- III. Surveying; Use of Compass, Plane, Table, Transit, and Level.—*Junior Year*: first and third terms, nine hours.
- IV. Railroad Engineering; Laying out Curves; Location of Line of Railroad; Setting Slope Stakes; Calculation of Excavation and Embankment; Transition Curves.—*Senior Year*: first term until November, twenty hours.
- V. Materials of Construction.—*Senior Year*: from November through the year, seven hours.
- VI. Bridge and Roof Trusses.—*Senior Year*: from November through the year, four hours.
- VII. Analytical Statics; Equilibrium of Systems of Forces Function; Attraction.—*Junior Year*: first and second terms.
- VIII. Method of Least Squares.—*Junior Year*: third term.

AGRICULTURE AND BIOLOGY.

- I. Irrigation and Drainage: first term, two hours. Professor HICKS.
- II. History, development and characteristics of the various breeds of Domestic Animals; Stock Breeding; Feeding: second term, two hours. Professor KINGSLEY.
- III. History; Propagation and Varieties of Cultivated Plants; Grass and Forage Plants: third term, two hours. Professor BESSEY.
- IV. Professor KINGSLEY will give an extended course on the Physiology of Domestic Animals in connection with a general course in Comparative Physiology.

SYNOPTICAL VIEW OF THE UNDERGRADUATE
COURSES OF STUDY.

SYNOPTICAL VIEW OF THE UNDERGRADUATE COURSES OF STUDY.

Year	ACADEMIC COLLEGE.			INDUSTRIAL COLLEGE.		
	CLASSICAL COURSE.	LITERARY COURSE.	SCIENTIFIC COURSE.	GENERAL AGRICULTURAL COURSE.	ENGINEERING COURSE.	
Freshman	1st	Latin Greek Mathematics Rhetoric	5 5 4 2	German Chemistry Physics Mathematics Rhetoric	5 2 5 5 2	German Chemistry Mathematics Rhetoric Physics
	2d	Latin Greek Mathematics Rhetoric	4 5 4 2	German Chemistry Physics Mathematics Rhetoric	5 2 5 2 2	German Chemistry Mathematics Rhetoric Physics
	3d	Latin Greek Mathematics Rhetoric	5 4 5 2	German Chemistry Mathematics Physics Chemistry	5 2 5 5 2	German Chemistry Mathematics Rhetoric Physics
Sophomore	1st	Latin Greek German	5 5 5	German French Anglo-Saxon History	4 4 2 4	German French Physics Zoology Rhetoric
	2d	Latin Greek German	5 5 5	German French Physics Rhetoric Chemistry	4 4 2 3 3	German French Physics Zoology Rhetoric
	3d	Latin Greek German	5 5 5	German French Physics Rhetoric Chemistry	4 4 2 2 3	Mathematics Physics Graphics Modern Languages
Junior	1st	Latin Greek German	5 5 5	German French Physics Rhetoric Chemistry	4 4 2 3 3	Mathematics Physics Graphics Modern Languages
	2d	Latin Greek German	5 5 5	German French Physics Rhetoric Chemistry	4 4 2 2 3	Mathematics Physics Graphics Modern Languages
	3d	Latin Greek German	5 5 5	German French Physics Rhetoric Chemistry	4 4 2 2 3	Mathematics Physics Graphics Modern Languages

SYNOPTICAL VIEW OF THE UNDERGRADUATE COURSES OF STUDY.—Continued.

Year	ACADEMIC COLLEGE.			INDUSTRIAL COLLEGE.		
	CLASSICAL COURSE.	LITERARY COURSE.	SCIENTIFIC COURSE.	GENERAL SCIENTIFIC COURSE.	AGRICULTURAL COURSE	ENGINEERING COURSE.
1st Term	3 Latin	3 French	3 Zoology	3 Geology	3 Embryology	4 Mathematics
	3 Greek	3 English Literature	3 Botany	4 Botany	3 English Literature	4 History
	4 German or French	3 History	3 French	2 Botany	3 Geology	3 Geology
	6 Electives	6 Electives	6 Electives	3 French	3 Entomology	3 Surveying
				3 Electives	3 Mil. Science	1 Mil. Science
2d Term	3 Latin	3 French	3 Geology	3 Geology	3 Embryology	4 Mathematics
	3 Greek	3 English Literature	3 Botany	2 Botany	3 English Literature	4 History
	4 German or French	3 History	3 Zoology	4 Zoology	3 Geology	4 Stereotomy.
	6 Electives	6 Electives	6 Electives	3 French	2 Metecology	1 Military science
				3 Electives	3 Military Science	3 Electives
3d Term	3 Latin	3 Italian	3 Geology	3 Geology	3 English Literature	4 Mathematics
	3 Greek	3 English Literature	3 Botany	2 Botany	3 Geology	4 History
	4 German or French	3 History	3 Zoology	3 Zoology	3 Entomology	4 Military Science
	6 Electives	6 Electives	6 Electives	3 French	3 Electives	3 Surveying
				3 Electives	3 Military Science	3 Electives
				1 Military Science	1 Military Science	
1st Term	3 Political Science	3 Political Science	3 Political Science	3 Pol. Sci. or Phil.	5 Animal Anat. & Phy.	4 Field Engineering
	3 Philosophy	13 Electives	13 Electives	3 English Literature	2 Lectures, Soils, Etc.	4 Thesis
	10 Electives			3 Geology	2 Thesis	5 Thesis
				1 Military Science	3 Civil Engineering	4 Civil Engineering
				3 Electives	1 Military Science	3 Electives
2d Term	3 Political Science	3 Political Science	3 Political Science	3 As in First Term	5 Animal Anat. & Phy.	4 Civil Engineering
	3 Philosophy	13 Electives	13 Electives		2 Lectures, Soils, Etc.	4 Bridges and Roofs
	10 Electives				2 Thesis	3 Electives
					1 Pol. Sci. or Phil.	3 Thesis
					1 Military Science	5 Thesis
3d Term	3 Political Science	3 Political Science	3 Political Science	3 As in First Term	5 Animal Anat. & Phy.	4 Civil Engineering
	3 Philosophy	13 Electives	13 Electives		2 Lectures, Soils, Etc.	4 Bridges and Roofs
	10 Electives				2 Thesis	5 Electives
					3 Pol. Sci. or Phil.	3 Thesis
					1 Military Science	5 Thesis

Junior

Senior

GRADUATE INSTRUCTION.

Graduates of this and other Colleges and other persons of approved attainments are provided advanced instruction in certain lines of study, with or without reference to a degree.

The subjects in which at present Graduate Instruction is offered are the following:

LATIN.

Professor BARBER: The Satirists; the Roman Drama; Roman Law.

GREEK.

Professor McMILLAN: The Lyric Poets; the Comic Drama; Greek Philosophy.

SANSKRIT.

Professor EDGREN: Sanskrit; Comparative Philology.

OLD FRENCH.

Dr. FONTAINE: Old and Middle French; Old French Morphology and Phonetics.

MATHEMATICS AND CIVIL ENGINEERING.

Professors HITCHCOCK and LITTLE: Analytical Mechanics; Higher Geometry; Determinants; Quaternions, Geodesy.

ENGLISH.

Professor SHERMAN: Anglo-Saxon and Middle English; English or American Literature.

HISTORY.

Professor HOWARD: Growth of the English Constitution, or American Institutional History.

CHEMISTRY.

Professor NICHOLSON: Analysis of the Minerals and Waters of the State; Ultimate Analysis of Organic Products; Analysis of Gases; Study of Unsolved Chemical Problems.

NATURAL SCIENCES.

Professor HICKS: Topographic work; Special field problems in Structural Geology; Optical investigation of Minerals and Rocks; Advanced Petrology.

Professor BESSEY: Advanced Work in Vegetable Physiology, and the Structure and Classification of the Lower Plants.

THE DEGREE OF MASTER OF ARTS.

The degree of Master of Arts is conferred upon graduates of this or any other college of equivalent undergraduate courses, who have passed a satisfactory examination in certain lines of study pursued under the direction of the Faculty.

None but resident students are eligible to examination for the degree of Master of Arts, and at least one year's study is required. Candidates are restricted in the choice of studies to a single department. In the department selected each student may give his whole time to a single (or *Complete*) subject; or, if he prefer, having so arranged his time as to devote 60 per cent to a *Major* subject, he is at liberty either to give the remaining 40 per cent to one *First Minor* subject or to divide it between two *Second Minors*, each having a value in time of 20 per cent. The minimum amount of time, or work, necessary to render the candidate eligible to examination for the degree in any department may therefore be represented by 100; but this minimum being reached, candidates may offer for higher standing other subjects in any department they may choose.

Instruction is not given to candidates studying for the Master's degree, except in connection with the studies named above. But all professors not offering instruction will aid the student in the selection of his subjects, and from time to time advise and assist him in preparing for his examination. The examination is mainly written, and the result in each subject is determined by a committee consisting of the examiner and an associate. Each candidate,* moreover, after passing the examination must present an acceptable thesis upon some topic included in the studies of the year; each thesis to be *publicly defended*, if required.

All candidates for the degree of M.A. must pay to the steward a fee of \$10 before examination.

GRADUATE COURSES OF STUDY.

I. DEPARTMENT OF POLITICAL SCIENCE AND HISTORY.

I. POLITICAL SCIENCE.

Complete Course (100).—Political Economy: *a.* History of the Science; *b.* General Economic Theory; *c.* Applications, and Unsettled Questions.

Major Course (60).—Same as above, but less extended in *a* and *c*.

First Minor Course (40).—Constitutional Law: *a.* The Constitution of Nebraska, with comparison of other State Constitutions; *b.* The Constitution of the United States, with comparison of those of other Constitutional nations.

Second Minor Course (20).—International Law: *a.* Theory (in some standard work, as Woolsey); *b.* Practice (as illustrated in select treaties and chapters of modern diplomacy).

*Except in the subjects of Sanskrit and Modern Languages, in which the preparation of a thesis is optional.

II. HISTORY.

Complete Course (100).—1. Growth of the English Constitution; (or) 2. American Institutional History.

Major Course (60).—1. Studies in Grecian and Roman Political Institutions; (or) 2. Ecclesiastical Institutions.

First Minor Course (40).—Select studies in Mediæval History.

II. DEPARTMENT OF ANCIENT LANGUAGES AND COMPARATIVE PHILOLOGY.

I. LATIN.

Complete Course (100).—*a.* Latin Satirists, or Latin Drama, or Roman Law; *b.* Latin Literature; *c.* Merguet's *Entwicklung der Lateinischen Formenlehre*; *d.* Stolz's *Lateinische Grammatik*; *e.* Delbrueck's *Introduction to the Study of Language*.

Major Course (60).—The same as above, with less extended reading, and Merguet and Delbrueck omitted.

First Minor Course (40).—*a.* Lucretius; *b.* Stolz's *Lateinische Grammatik*, and Latin Literature.

Second Minor Course (20).—*a.* Tacitus' *Annals*; *b.* Latin Literature.

II. GREEK.

Complete Course (100).—*a.* Pindar and Æschylus; *b.* Mahaffy's *History of Classical Greek Literature*; *c.* Symonds's *Study of the Greek Poets*; *d.* Brugmann's *Griechische Grammatik*; *e.* Delbrueck's *Introduction to the Study of Language*.

Major Course (60).—The same as above, with less extended reading, and Symonds and Delbrueck omitted.

First Minor Course (40).—*a.* Æschines's *Oration against Ctesiphon*; *b.* Brugmann's *Griechische Grammatik*; *c.* Mahaffy's *History of Greek Literature*.

Second Minor Course (20).—Same as last, Brugmann's *Grammar* omitted.

III. SANSKRIT.

Complete Course (100).—Edgren's *Grammar*; Lanman's *Reader*, pp. 1-68; Bhagavadgita, 12 songs; Shakuntala, 4 acts.

Major Course (60).—Edgren's *Grammar*; Lanman's *Reader*, pp. 1-68; Bhagavadgita, 5 songs.

First Minor Course (40).—Edgren's *Grammar*; Lanman's *Reader*, pp. 1-44.

Second Minor Course (20).—Edgren's *Grammar*; Lanman's *Reader*, pp. 1-12.

IV. COMPARATIVE PHILOLOGY.

Major Course (60).—Following college course in Greek and Latin, so much Sanskrit as is included in the Second Minor; Whitney's *Life and Growth of Language*; Delbrueck's *Einleitung in das Sprachstudium*; Brugmann's *Compendium der vergleichenden Sprachwissenschaft*.

First Minor Course (40).—Latin, Greek, and Sanskrit as above; Whitney's *Life and Growth of Language*; *Outlines of Brugmann's Compendium*.

III. DEPARTMENT OF MODERN LANGUAGES.

I. GERMAN GROUP.

ENGLISH.

Complete Course (100).—Grein's *Bibliothek des Angelsächsischen Poesie*, Vol. II., with Ten Brink's *Early English Literature*.

Major Course (60).—Genesis and Exodus, Sir Gawayne and the Green Knight, Lancelot of the Laik, Morte d'Arthure, Merlin, West Mid-Land Alliterative Poems, and Havelock the Dane (in *Early English Text Society's* publications).

First Minor Course (40).—Layamon's Brut, King Horn, The Ancren Riwle, The Minor Works of Chaucer.

Second Minor Course (20).—Robert of Gloucester's, and Peter Langtoft's *Chronicles*.

GERMAN AND GOTHIC.

Complete Course (100).—*a. Modern German:* Scherer's *Geschichte der deutschen Literatur*; a careful study of some author or literary period; Schleicher's *Geschichte der deutschen Sprache*, p.p. 1-123.—*Old High German:* Braune's *Altdeutsches Lesebuch*.—*Gothic:* Braune's *Gothische Grammatik* (with text).

Major Course (60).—Same as above, Gothic omitted, and less reading in old High German.

First Minor Course (40).—Same as Major Course, Old High German omitted.

Second Minor Course (20).—About 500 pages reading (from authors not studied in college); Schleicher's *Geschichte der deutschen Sprache*.

II. ROMANCE GROUP.

Complete Course (100).—*a. French:* Demogéot's *Historie de la littérature française*; Demogéot's *Textes classiques de la littérature française*; Cledat's *Historical French Grammar*; Bartsch's *Chrestomathie de l'ancien français* (text, pp. 3-58).—*b. Italian:* Cotterill's selections from Dante and Tasso.—*c. Spanish:* Knapp's *Spanish Readings*.—*d. Diez's Grammatik der Romanischen Sprachen* (in outline).

Major Course (60).—Same as above, with the exception of Spanish, and also of Bartsch and Diez.

First Minor Course (20).—Same as Major Course, Italian excepted.

Second Minor Course (40).—Herrig and Burguy's *La France littéraire*; Brachet's *Historical French Grammar*.

The courses marked out in this Department are those recommended to the candidate, but others, if deemed equivalent, will be accepted.

IV. DEPARTMENT OF MATHEMATICS, AND CIVIL ENGINEERING.

V. DEPARTMENT OF BOTANY AND ZOOLOGY.

VI. DEPARTMENT OF CHEMISTRY AND PHYSICS.

VII. DEPARTMENT OF GEOLOGY AND MINERALOGY.

In these Departments no attempt has been made to differentiate courses according to the general plan above. The professors in charge will arrange and adapt suitable courses on application of candidates.

COURSES OF PUBLIC LECTURES.

The University has instituted courses of Lectures upon topics of general interest, to which the public may obtain free access by application for tickets at the office of the Steward. These lectures are to be given in the Chapel on Thursday afternoons at 5 o'clock.

The course just closed, on American Charities, by Dr. WARNER, was as follows:

- I. The Causes of Poverty.
- II. The Causes of Pauperism.
- III. The Charities of American Cities.
- IV. Charities and Corrections in Nebraska.

Announcement will be made of the subjects on the opening of the Fall term.

THE LATIN SCHOOL.

In this school preparation is afforded for all the Undergraduate Courses in the University.

The preparatory studies run through two years. Applicants for admission to the First Year will be examined in the following subjects:

English Grammar.

Arithmetic.—Fractions, denominate numbers, percentage and its applications, analysis, and proportion.

Geography.

History of the United States.

Applicants for admission to the Second Year (excepting those holding diplomas from the High Schools named below) will be examined in the several studies of the First Year, as enumerated hereafter. All candidates must attain a grade of sixty on the scale of one hundred, and no conditions will be allowed.

Examination of candidates will be held at the University, commencing at 9 A. M., on Thursday and Friday after Commencement, June 13 and 14, 1889, and on Tuesday and Wednesday, Sept. 17 and 18, before the opening of the Fall Term. Attendance at the opening of the examination is required in all cases.

ADMISSION BY DIPLOMA.

Candidates holding diplomas from the High Schools of *Ashland, Columbus, Fairmont, Friend, Gibbon, Harvard, Hebron, Holdrege, McCook, North Loup, Ord, Red Cloud, Sutton, Tecumseh, and Wilber* will be admitted to the Second Year without examination.

There is but one course of study preparatory to all the College Courses. In the second year the student chooses between Greek and Science. The arrangement of the studies for the two years is as follows:

FIRST YEAR.

FIRST TERM.

Latin.—Allen's New Latin Method. (Five hours.)

Algebra.—Olney's Elementary Algebra. (Five hours.)

English.—Practical Exercises in Vocal Expression. (Two hours.)

History.—Barnes's, Swinton's, or Myers's General History: Roman and Greek History. Library work from blackboard diagrams. (Three hours.)

SECOND TERM.

Latin.—Allen's New Method, continued; Cæsar begun; Allen and Greenough's Grammar. (Five hours.)

Algebra.—Olney's University Algebra. (Five hours.)

English.—Logical and philological study of English grammar, with exercises for the practical application of the principles deduced.

History.—Mediæval History. Library work, as first term. (Three hours.)

THIRD TERM.

Latin.—Allen and Greenough's Grammar; Cæsar, twenty chapters. (Five hours.)

Algebra.—Olney's University Algebra. (Five hours.)

English.—Grammar Completed; exercises in capitalization and punctuation. (Two hours.)

History.—Modern History. Library work, as before. (Three hours.)

SECOND YEAR.

FIRST TERM.

Latin.—Cæsar, books III. and IV.; Allen's Latin Composition. (Five hours.)

Algebra.—Olney's University Algebra, finished; Well's Geometry, begun. (Five hours.)

English.—One Essay, on an assigned subject.

Greek.—Allen's Hadley's Grammar; Harkness's First Greek Book (five hours); *or*

Botany, Physics and Chemistry.—The gross anatomy of the flowers, fruit, leaves, and roots of several plants; talks on Green Slime, Yeast-plant, Black Mould, Green Felt, and Grape Mildew (one hour); Balfour Stewart's Lessons in Elementary Physics; Mechanics and Sound (two hours); Study of the Non-Metallic Chemical Elements; two class exercises, with five hours laboratory practice a week. (Two hours.)

SECOND TERM.

Latin.—Cicero, First and Second Orations against Catiline; Allen's Latin Composition. (Five hours.)

Geometry.—Well's Geometry, continued through book V. (Five hours.)

English.—One Essay, on an assigned subject.

Greek.—Greek Grammar, and First Greek Book, continued; Anabasis begun (five hours); *or*

Botany, Physics, Chemistry, and Drawing.—The gross anatomy of stems and buds, and a study of the effects of low temperature on vegetation; talks on Seaweeds, Blights, Cup Fungi, Black Fungi, Ruts, and Smuts (one hour); Stewart's Lessons: Heat, Light, and Electricity (three hours); Non-metallic elements continued, one hour of class exercises, with two hours and a half of laboratory practice per week; Free-hand Drawing (one hour).

THIRD TERM,

Latin.—Cicero: Third and Fourth Orations against Catiline; Allen's Composition, through thirty lessons. (Five hours.)

Mathematics.—Wells's Geometry, through Book VII. (Five hours.)

English.—One Essay on an assigned subject.

Greek.—Greek Grammar; Anabasis continued through four chapters (five hours); *or*

Botany, Drawing, and Chemistry.—The structure, analysis, and identification of flowering plants (Gray's Lessons and Manual, and Coulter's Manual); and the preparation of a collection of one hundred plants in herbarium (two hours). Non-Metallic elements continued.

Two class exercises and five hours of Laboratory practice a week.

SCHOOL OF THE FINE ARTS.

As it is not yet possible for the University to open the College of Fine Arts, it is necessary for the teachers of Art and Music to make a charge for tuition.

GRAPHIC ART.

Under the direction of Sarah Wool Moore, a pupil of Eisenmenger, Rector of the Vienna Academy of Fine Arts, instruction is given in drawing and painting from the flat, from casts, still-life, nature and live models in the progressive order necessary to systematic training of the eye and hand. Pupils are required to provide easels and material; the studio furnishes an ample selection of casts and studies.

Tuition.

Daily lessons during twelve weeks.....	\$ 25.00
Four lessons weekly twelve weeks.....	21.00
Three lessons weekly twelve weeks.....	17.00

A course of lectures abundantly illustrated on Art History, especially Architecture, Sculpture and Painting, extends through the year.

Classes are also conducted in Perspective and Artistic Anatomy.

MUSIC.

Instruction is given in the various branches of Music as follows:

I. THE PIANOFORTE.

The following is an outline of the course of instruction:

FIRST TWO YEARS.

Lebert and Stark's First and Second Books, Plaidy's Technical Studies—Czerny, Kohler, Bertini, Loeschorn, and Heller Studies.

THIRD YEAR.

Lebert and Stark's Third Book, Cramer's Studies, Sonatas, and other works of Clementi, Mozart, Beethoven, and Mendelssohn.

FOURTH YEAR.

Moscheles, Kullak, Schuman, Rubinstein, Liszt, Chopin Studies.

The most careful training practicable is given; particular attention is paid to technique, style, phrasing, and to that which constitutes the chief power of the performer, expression.

The Conservatory or Class System is employed, or private lessons given at the option of the pupil.

II. THE ORGAN.

Lessons are given on the Pipe and Reed Organ, and, as in the Pianoforte department, are designed for the purpose of imparting a complete training. The technical works of Best, Stainer, Rinck, etc., and the compositions of Bach, Mendelssohn, Merkel, Guilman, etc., are used.

III. THE VOICE.

Training of the voice: Care of the vocal organs; Management of the breath; Carefully selected exercises, scales (major, minor, and chromatic), and arpeggios are given in order to obtain flexibility of voice and a clear enunciation of words.

Classes in the rudiments of Music will be formed, if a sufficient number desire it.

IV. MUSICAL THEORY.

Harmony, Counterpoint, Fugue, Form, Instrumentation, Composition, etc., may be studied separately or in classes.

V. THE VIOLIN.

Instruction upon this instrument is given by a teacher trained in the Berlin and Leipzig Conservatories. Great care is taken to have the pupil attain a correct position on which the development of tone and technique so largely depends.

Musical Soirees are given during the year, in order that pupils may become accustomed to playing before the public.

Tuition in Music.—For a period of ten weeks—two lessons per week. Payable one-third in advance, and the balance at the middle of the term.

PIANO, Private lessons, one hour	\$15 00
Private lessons, half hour.....	8 00
Classes of two pupils, each.....	7 50
Classes of four pupils, each.....	5 00
Use of Piano (one hour daily), per month.....	1 00
VOICE CULTURE, Private lessons, one hour.....	\$15 00
Private lessons, half hour.....	8 00
THOROUGH BASS AND HARMONY, Classes	\$7 00

Pupils should enter the classes at the beginning of the term.

For further information apply to Ermina D. Cochran, Teacher.

GENERAL INFORMATION.

THE UNIVERSITY AND THE STATE.

The University of Nebraska is a part of the public educational system of the State. The governing body of the institution is a Board of Regents elected by popular vote for terms of six years, as provided in the State constitution. The University aims to complete and crown the work begun in the public schools, by affording to the inhabitants of this State the means for acquiring a thorough knowledge of the various branches of literature, sciences and the arts.

Through the aid received from the United States (first in a grant of seventy-two sections of land "for the support of a State University," and second in a grant of 90,000 acres of land for the Industrial College, for the benefit of agriculture and the mechanic arts") and the State (in a fund derived from a tax of $\frac{3}{8}$ of a mill upon each dollar of valuation on the grand assessment roll of the State).

The University is enabled to offer its privileges without charge for tuition to all persons, without regard to sex, color or nationality, who are qualified for admission.

The law establishing the University provides that "the University may embrace five departments, to-wit: *First*, a College of Literature, Science and arts; *second*, an Industrial College, embracing agriculture, practical science, civil engineering and the mechanic arts; *third*, a College of Law; *fourth*, a College of Medicine; *fifth*, a College of the Fine Arts." Of these the first and second only are yet in operation.

THE ACCREDITED HIGH SCHOOLS.

By an arrangement made several years ago, the graduates of Accredited High Schools and Academies may enter the University without examination, on presentation of their diplomas. There are two grades of these accredited schools, viz: Those which prepare candidates for the second year of the Latin School ("Minor Course") and those which prepare for the Freshman class ("Major Course").

Any school in order to be accredited for either course must, on request of the school-board, be visited by a member of the University Faculty, who will then report to the Faculty the condition of the inspected school. The Faculty will then in their discretion either accept the school or reject it. Acceptance is either for one two or three years, and each school is required to make an annual report to the Faculty.

I. For the Major Course, preparing for the Freshman Class:

ALMA	P. B. BENTLEY, Principal
AUBURN	CHARLES FORDYCE, Supt. and Principal
ASHLAND	D. E. REESE, SUPT. and Principal
BEATRICE	} CARROLL L. PEARSE, Superintendent
	} LOU O. RAWLES, Principal
EDGAR	} MARION THRASHER, Superintendent
	} MRS. MARION THRASHER, Principal

FREMONT	J. A. HORNBERGER, Superintendent	}
	NETTIE TORRANCE, Principal	
GRAND ISLAND	R. J. BARR, Superintendent	}
	E. E. COLE, Principal	
KEARNEY	M. I. STEWART, Principal	
LINCOLN	E. T. HARTLEY, Superintendent	}
	S. P. BARRETT, Principal	
NEBRASKA CITY	C. D. RAKESTRAW, Supt. and Principal	
PLATTSMOUTH	W. W. DRUMMOND, Superintendent	
ULYSSES	C. H. ALDRICH, Principal	

II. For the Minor Course, preparing for the second year of the Latin School:

AURORA	H. R. CORBETT,	Principal
COLUMBUS	J. M. SCOTT,	"
FAIRMONT	J. L. VAN EATON,	"
FRIEND	D. G. HOPKINS,	"
GIBBON	C. A. FULMER,	"
HARVARD	A. V. STORM,	"
HEBRON	A. J. MERCER,	"
HOLDREGE	W. R. HART,	"
MCCOOK	CHARLES C. HELTMAN	"
NORTH LOUP	M. B. C. TRUE,	"
ORD	J. M. HUSSEY,	"
RED CLOUD	JOHN T. CURRAN,	"
SUTTON	ALEXANDER STEPHENS,	"
TECUMSEH	W. H. GARDNER,	"
WILBER	J. H. ALBRIGHT,	"

BUILDINGS AND GROUNDS.

The principal buildings and appliances of the University are situated near the business center of Lincoln. The College Farm and Buildings and the grounds of the Agricultural Experiment Station are on the eastern border of the city, within easy reach by horse-car or other conveyance.

UNIVERSITY HALL contains the Chancellor's office, Steward's office, Library, Chapel, the Society halls and twenty-four lecture and recitation rooms.

NEBRASKA HALL contains the Grand Museum, and rooms for Botany, Zoology, Geology, Agriculture, Horticulture, and Physics.

THE CHEMICAL LABORATORY is devoted to Chemistry and contains the several laboratories and offices.

GRANT MEMORIAL HALL is devoted to military science and gymnastics.

THE COLLEGE FARM includes 320 acres of rolling upland in a good state of cultivation. On it is a farm house, a large barn, and other buildings. The Experimental Stations occupy about forty acres of the south-western portion of the farm.

THE LIBRARY.

The collection of books accessible to students are the General library, the Department library, the State libraries, the City library, and the Library of the State Historical Society. They contain in the aggregate about 47,000 volumes.

I. THE GENERAL LIBRARY.

The University library now contains about 10,000 volumes, well selected and classified, and about six thousand dollars will be expended in the purchase of books during the biennium. The General Reading room is supplied with the best American and Foreign magazines and periodicals. Both Library and Reading room are open from 8:30 A. M. until 12:30 P. M., and from 2 P. M. to 4 P. M. each day.

II. DEPARTMENT LIBRARIES.

The AGRICULTURAL LIBRARY contains about 400 volumes of works on Agriculture, Stock breeding, Forestry, etc.

The CHEMICAL REFERENCE LIBRARY of about 600 volumes is shelved in the weighing room of the Laboratory and is open to students under certain restrictions, during working hours. It contains a full set of the following journals; *Berichte der Deutschen Chemischen Gesellschaft*; *Chemisches Central-Blatt*; *Chemical News*; *Zeitschrift fur Analytische Chemie*; *American Chemical Journal*, and the *Journal of Analytical Chemistry*. Students also have access to *Comptes Rendus*, *Journal of the (London) Chemical Society*, *Jahresbericht ueber die Fortschritte der Chemie*, and the *Analyst*. The library also contains the leading text books and other important Chemical publications.

The BOTANICAL LIBRARY consists of special works on systematic and structural botany, and includes 570 volumes and a considerable number of pamphlets. It is supplied with full sets of *Annales der Sciences Naturelles*, *Pringsheims Jahrbuecher fuer wissenschaftliche Botanik*, *Grevillea*, *Botanical Gazette*, *Journal of Mycology*, *Garden and Forest*, and current volumes of all the most important Botanical periodicals.

III. OTHER LIBRARIES ACCESSIBLE TO STUDENTS.

Besides the Grand and Special collections belonging to the University there are several other libraries in the city to which students have access. Of these the most important is THE STATE LIBRARY, located in the Capitol. This is one of the best law libraries in the country, and contains at present about 29,000 volumes. The collection of Statutes, archives, colonial records and miscellaneous documents are of inestimable value to advanced students in institutional history and economics.

The excellent PUBLIC LIBRARY (of about 6,000 volumes) of the city of Lincoln is now free to all. It contains many well-selected standard works in history and general literature.

Advanced students are also allowed to consult the collections of the STATE HISTORICAL SOCIETY, which are especially rich in sources of American colonial history.

THE MUSEUMS.

The Museums of the University contain material illustrative of natural history, agriculture and other departments of study. In some of these the collections are already of considerable size, while in others a beginning only has been made. They are so arranged as to render them accessible to students and visitors. As these Museums afford a safe repository for objects of value, it is hoped that frequent gifts will be made to the several collections.

NATURAL HISTORY.

I. The MINERALOGICAL COLLECTION includes most of the ordinary mineral species, fine crystals, both cut and uncut, for optical investigation, a series of crystalline rocks collected and named by Professor C. H. Hitchcock, a valuable series of agates and agatized woods, ores of the ordinary and precious metals of North America, and a fine collection of South American gold and silver ores, the latter presented by Gen. Victor Vifquain, U. S. Consul at Colon.

II. The GEOLOGICAL COLLECTION includes building stones, concretions, geodes, drift-boulders, sea-shore and river boulders, clays, marls, peat, coal, petroleum, ores, sections, maps, and other illustrations of structural, dynamical, and economic geology.

III. The PALÆONTOLOGICAL COLLECTION includes series of fossils from nearly all the productive horizons, especially those represented in Nebraska. The dicotyledonous leaves of the Dakota group are well represented. A fine series of bryozoan corals collected and named by E. O. Ulrich, has recently been acquired.

IV. The ZOOLOGICAL COLLECTION.—For illustration in the several branches of Zoology material is available as follows: Alcoholic specimens of the marine invertebrates, representing the lower branches; marine, fresh-water and land mollusks; a set of mounted specimens of the native birds and mammals; a small collection of the local fishes and reptiles; a small collection of skulls and skeletons of vertebrates; microscopical preparations of the smaller insects, crustaceans, histological material, etc.

The Instructor's private collection of upwards of 150,000 specimens of mollusks, insects, marine invertebrates, fishes, microscopic slides, etc., are also accessible to students of Zoology.

V. The ENTOMOLOGICAL COLLECTION, belonging to the Experiment Station, comprises twenty "display cases" arranged to show the economic relations of certain insects, together with a beginning of a general collection illustrating the insect fauna of the state. These, with a private collection of the Station Entomologist, include about 75,000 specimens, representing from 8,000 to 10,000 species.

VI. The UNIVERSITY HERBARIUM includes, in addition to a pretty full representation of the plants of the state, a number of valuable sets prepared by eminent specialists, e. g. Thuemen (*Mycotheca Universalis*), Linhart (*Ungarns Pilze*), Ellis (*N. A. Fungi*), Areschoug (*Alg. Scand.*), Rabenhorst (*Alg. Sach. et. Alg. Europ.*), Le Jolis (*Alg. Mar. Cherb.*), Massalongo (*Lich. Ital.*), Stenhammar & Fries (*Lich. Succ.*), Tuckerman (*Lich. Am. Bor.*) Gottsche & Rabenhorst (*Hepat. Europ.*), Austin (*Hepat. Am. Bor.*), Austin (*Musei Appl.*), Curtiss (*N. A. Plants*).

The above collection includes about 25,000 specimens of which about 8,000 are fungi, 5,000 algae, 1,000 lichens, 900 hepaticae, 1,000 musci, 450 pteridophytes, 9,000 phanerogams.

AGRICULTURAL MUSEUM.

The AGRICULTURAL MUSEUM contains collections of grains, grasses, forage plants, woods, fibres, etc., etc., aggregating about 1,200 specimens.

CLASSICAL COLLECTION.

A beginning has been made of a collection of busts, reliefs, maps, engravings, etc., to illustrate ancient Greek and Roman history.

CHEMICAL COLLECTION.

A beginning has been made of an illustrative collection of Chemical material. It comprises at present sets as follows: Chemical Elements (63 specimens); Chemical Compounds (200); Fluorescent Substances (16); For Spectroscopic work (18); Alkaloids (84); Coal Tar Colors (70); Coal Tar Products (50); Dyed Specimens of Silks, etc. (350); Common Minerals (150); Tiles and Pottery (25); Models of Precious Stones (84); Models of Noted Diamonds (15); the Professor's private collection of Minerals (150); the Professor's private collection of Crystal Models (123).

ART COLLECTION.

In connection with the department of Art the beginning has been made of a collection of casts of statuary, architectural studies, geometrical solids, engravings, etc.

THE LABORATORIES.

In the Laboratories of the University opportunities are provided for the practical study of chemistry, physics, geology and mineralogy, zoology, entomology, botany and agriculture.

CHEMICAL LABORATORY.

The Chemical Laboratory was planned and built after a careful study of the newest and best arranged laboratories in this country and Europe.

It is well equipped for work; the principal rooms being supplied with hoods, steam and sand baths, drying ovens and filtering pumps. The work tables are supplied with complete sets of re-agents, gas, and running water.

Three large rooms are devoted to work in general and analytical chemistry.

Besides these there are two commodious lecture rooms; a room for research and other special work; a library and weighing room; Professors' rooms and rooms for assays, combustions, gas analysis, stores, etc. This affords excellent opportunities for a systematic training in the laboratory method of studying Chemistry.

Instruction is regularly given in general and analytical Chemistry, pure and applied.

The Laboratory is open, each week day, except Saturday, throughout the college year, to all students of the University, and those, not students, who comply with the required conditions.

PHYSICAL LABORATORY.

The Physical Laboratories at present comprise two rooms in the Chemical Laboratory for general laboratory work, two rooms on the first floor of the main building for advanced laboratory work, and four rooms in the basement for shop, dynamo and engine room, and for electrical measurements.

Three of these rooms are provided with piers and the floors are laid in concrete. A mechanical expert is employed continually in the shop in repairing and constructing apparatus. Two rooms in the top of the main building are devoted to the work of the Meteorological Station connected with this department.

With the occupancy of the new science building about 8,000 square feet of floor area will be devoted to the work in Physics. The ground floors will be especially arranged for work in Electricity and Magnetism and will be provided with piers and stone tables. The upper floors will contain the library, lecture and apparatus room, and general laboratory, with rooms for advanced work in Light and Heat.

The collection of apparatus for lecture room work consists of the instruments for illustrating the more important phenomena. The equipment for general laboratory work has been considerably increased during the last two years by purchase and by construction in the shop.

The facilities for advanced work have been especially increased by large invoices from the best foreign and American houses. During the last year the following apparatus has been received: Large Becker balance; standard observatory barometer 0.6 in. bore, standard thermometer to tenths of a degree, and several other thermometers, aneroid barometer, hygrometers and hydrometers by Green; dividing engine with micrometers, cathetometer, spectrometer with goniometer by the Societe Genevoise; Thollon prism, Rowland grating; Abbe's refractometer; Heliostat by Brashear; diffraction bench by Duboseq; Plucker tubes, crystal sections, etc.; calorimeters, Regnault's apparatus for specific heat, latent heat, tension of vapours, globe for specific heat of gas by Golaz; Violle's actinometer, calorimeters, vibrator, apparatus for radiation by Ducretet; siren, storage batteries, dip circle; reading telescope, absolute galvanometer, Rosenthal's galvanometer sensitive to 0.000,000,001 amperes by Edelman; Wiedemann's electro-dynamometer, Thomson's galvanometer, quadrant electrometer, tangent galvanometer (one meter ring), resistance box by Troy Manufacturing Co.; Carpentier's voltmeter and ammeter, Siemens' ammeter; standard condenser and ohm with Cavendish certificate, Thomson's large astatic galvanometer with shunts and extra coils by Elliott Bros.; Thomson quadrant electrometer by White; resistance boxes, bridges, keys, switches voltmeters, etc.; Weber electro-dynamometer, induction coil: 18-inch inductor, new design with only one axis, resistance for large currents, bridges, dynamos, etc., constructed in the shop; four horse power Otto gas engine; large electro-magnet made to order and weighing thirty-four hundred pounds.

It is expected that several dynamos of well known makers will be added to the department soon. The Electric Light Co. of the city has furnished a branch circuit for uses in the laboratory. Several orders are now being filled for further completing the equipment.

GEOLOGICAL LABORATORY.

The Geological Laboratory is furnished with ordinary and petrographical microscopes, polariscope with stauroscopic attachment, apparatus for cutting and grinding rock-sections, physiographic and geological maps, barometer and level for topographic work, tables, tools, reagents, gas, and water for determinative mineralogy.

ZOOLOGICAL LABORATORY.

This is now being equipped with new tables, lockers, etc., compound microscopes (fifteen made by Leitz), microtomer, injecting apparatus, staining fluids, and mounting media for histological and general microscopical work. It is also provided with dissecting instruments, and apparatus for use in collecting and field work.

ENTOMOLOGICAL LABORATORY.

In connection with the work of the Experiment Station the Entomological Laboratory is maintained for investigation, and also for the benefit of advanced students, who are permitted to work with the Entomologist.

BOTANICAL LABORATORY.

The Microscopical Laboratory is furnished with tables, cases, lockers, water, gas and other conveniences. It is supplied with thirty-two compound microscopes made by Beck, Leitz, and Bausch and Lomb, thirteen dissecting microscopes, scalpels, section cutters, forceps, glassware, staining fluids, reagents, etc. The Physiological Room is in connection with the Conservatory, and is to be fitted up with apparatus for work in the experimental physiology of plants.

AGRICULTURAL LABORATORY.

This will be supplied with the necessary microscopes and other instruments, tables, cases, lockers, etc., for the investigation of problems in the anatomy and physiology, and especially of the embryology, of the higher animals.

PATHO-BIOLOGICAL LABORATORY.

In connection with the Experiment Station this laboratory has been maintained for the purposes of investigation alone. It is well equipped in microscopes, thermostats, culture apparatus, glass-ware, etc., for bacteriological work.

CIVIL ENGINEERING.

The equipment of this department consists of Transit, Wye Level, Hand Level, Plane Table, Vernier Compass and a Rolling Planimeter, made by Corradi, of Zurich; in addition, the usual minor accessories.

In the Testing Laboratory, there is a Riehle Cement Testing machine, with tools for testing cement in tension and compression to two thousand pounds. It has also tools for testing wire.

THE ARMORY.

The equipment of the Military Department consists of one hundred Springfield Cadet-Rifles with accoutrements; a battery of two 3-inch Field-Rifles; sixteen commissioned officers' swords and belts; musical instruments and uniform for military band; flags, etc.

The Armory is open for drill and practice at stated times during the week, and by law all male students in the college classes are required to drill six consecutive terms, unless excused by the Chancellor.

LITERARY AND OTHER SOCIETIES.

The students maintain four literary societies, viz: The Palladian, The Union, The Philodicean and The Delian. These meet every Friday evening for literary and musical exercises. On Saturday evenings the young men of the societies conduct several debating clubs for practice in extemporaneous discussion and debate.

The Scientific Club meets every alternate Saturday afternoon for the reading and discussion of scientific papers. The Classical Club meets every third Saturday afternoon for lectures, papers and discussion of classical philology.

MORAL, RELIGIOUS AND GENERAL CULTURE.

Religious exercises, consisting of scripture reading, singing, and prayer, are held every morning in the University Chapel, and are attended by the great majority of the students, although the attendance is voluntary.

The Young Men's Christian Association and the Young Women's Christian Association hold regular meetings in room No. 7 of University Hall.

The churches of the city are open to all the students, and a cordial welcome is always extended to them.

The following church organizations are represented in the city; Baptist, Catholic, Christian, Congregational, Protestant Episcopal, Lutheran Evangelical, Methodist Episcopal, German Methodist, Swedish Methodist, Presbyterian, Seventh Day Adventist, United Brethren, and Universalist.

The Capital City furnishes in various ways many opportunities for culture of which the student may take advantage if he chooses. The Haydon Art Club, which has for its object the encouragement of art, meets regularly once a month in the University chapel, where it has hung a set of twenty-five fine etchings by Urger, Flaming, Urlaub, Schoenleber, Parmentier and others. The Club during the past year secured the exhibition in the city of Karl Von Piloty's painting, "The Wise and Foolish Virgins," and granted special admission privileges to University students.

Musical concerts of a high order of excellence are given by local societies; and from time to time excellent dramatic entertainments are supplied by the manager of the Opera House.

The annual January meetings of the State Historical society and the State Agricultural society, held in the University chapel, and those of the State Horticultural society, and the State Bee Keepers' association in the Botanical Lecture room, with the Annual Corn Show and Fruit Exhibit, present opportunities of great value to the student interested in these subjects.

FEES AND EXPENSES.

MATRICULATION FEE. Every student, before entering any department of the University, is required by the law of the state, to pay a Matriculation Fee of five dollars, which entitles him to the privileges of permanent membership in the University.

TUITION. By law, the tuition in the established colleges of the University is free to all residents of Nebraska.

LABORATORY EXPENSES. Students pay for the materials and apparatus they actually consume. In chemistry this varies from five to ten dollars per year.

DIPLOMA FEE. Upon graduation, each student pays a diploma fee of five dollars.

OTHER EXPENSES. These vary much, according to the individual habits of the student. An investigation, recently made, shows that some students get through the year on less than one hundred and seventy-five dollars, while others spend nearly three times that sum.

Board and Lodging from.....	\$145.00	to	\$400.00
Books.....	15.00	to	25.00
Stationary.....	2.00	to	10.00
Other Expenses, including Societies.....	7.00	to	47.00
			47.00
Total for the year.	\$169.00	to	\$482.00

Board and lodging are obtained in private families at from \$2.50 to \$3.50 per week. In the student boarding clubs, of which there are several, the cost of board is about \$2.00 a week. Room rent varies from fifty cents or less to \$1.50 a week for each student.

The University maintains no dormitory or boarding hall, but the steward will give information in regard to rooms and board, to all who apply at his office (Room 6, University Hall).

MANUAL LABOR. While the University can not undertake to furnish manual labor to many students, it is enabled to do so to a limited extent upon the farm and campus, and in the various buildings, at rates varying from fifteen to forty-five cents per hour (dependent upon the quality of work). Many students find work in private families and in various occupations, by means of which they defray a portion of their expenses. A person of ability and energy, *who is master of a trade or who can do first class work*, can always find remunerative employment.

THE
UNIVERSITY OF NEBRASKA

CATALOGUE

1889-90



LINCOLN, NEBR.
PUBLISHED BY THE UNIVERSITY
1890

OFFICES, OFFICE HOURS, ETC.

THE GENERAL OFFICE is in room 6 on the first floor of University Hall. All inquiries relating to University matters may be made here. This office is open from 8:30 A. M. to 12:30 P. M., and from 2 to 6 P. M., of every week day.

THE ACTING CHANCELLOR is in the office from 10:30 to 11:30 A. M., and from 4 to 5 P. M., of every school day.

THE STEWARD is in the office from 9 A. M. to 12:30 P. M., and from 2 to 5 P. M., of every week day.

THE PRINCIPAL OF THE LATIN SCHOOL is in his room, No. 3, on the first floor of University Hall, from 3 to 4 P. M. of every school day.

THE DIRECTOR OF THE EXPERIMENT STATION may be found in room 22, on the second floor of Nebraska Hall.

ABBREVIATIONS.

CL., Classical Course; LIT., Literary Course; SC., Scientific Course; AGR., Agricultural Course; ENG., Civil Engineering Course; U., University Hall; N., Nebraska Hall; C., Chemical Laboratory; G., Grant Memorial Hall.

For Catalogues and general information, address THE STEWARD *of the University of Nebraska*, LINCOLN, NEBRASKA.

ANNOUNCEMENTS FOR 1890-91.

1890.

- March 31, THIRD TERM begins.
- May 24, Close of Senior Examinations.
- May 29 to 31, Annual Encampment of University Cadets.
- June 2-7, Term Examinations.
- June 8, Baccalaureate Address.
- June 9, Commencement Concert.
- June 10, (A. M.,) Class Day Exercises.
- June 10, (P. M.,) Alumni Reunion.
- June 11, COMMENCEMENT.

SUMMER VACATION.

- June 12-13, Examinations for Admission.
-

- September 16-17, Examinations for Admission.
- September 17, FIRST TERM begins.
- December 24, FIRST TERM ends.

1891.

- January 2, SECOND TERM begins.
- February 15, CHARTER DAY.
- March 20, SECOND TERM ends.
- March 30, THIRD TERM begins.
- June 10, COMMENCEMENT.

1890.

JANUARY							JULY						
Sun.	Mon.	Tues.	Wed.	Thu.	Fri.	Sat.	Sun.	Mon.	Tues.	Wed.	Thu.	Fri.	Sat.
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1891.

JANUARY							JULY						
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31
JUNE							DECEMBER						
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28	29	30	27	28	29	30	31

BOARD OF REGENTS.

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ACTING CHANCELLOR, and *Professor of Botany and
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Professor of Mathematics, (15 U.) 511 N. 16th st.
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Professor of History, (20 U.) 1504 S st.
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*Professor of Chemistry, and Director of Chemical
Laboratory,* (10 C.) 825 S. 31st st.
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Professor of Military Science and Tactics, (7 G.) Windsor Hotel.

- CHARLES N. LITTLE, PH. D.,
Professor of Civil Engineering, (10 U.) 1925 E st.
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Professor of Analytical Chemistry, (4 C.) 445 N. 13th st.
- HOWARD W. CALDWELL, B. PH.,
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Associate Professor of Rhetoric and Oratory, (29 U.) 1830 F st.
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Science,* (18 U.) 1427 D st.
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of Classical Philology,* (3 U.) 1826 F st.
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*Teacher of Painting and Drawing, and Lecturer on the
History of Art,* (21 U.) 1730 D st.
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Instructor in Mathematics, (17 U.) 741 N. 16th st.
- VERNON J. EMERY, B. A.,
Instructor in Latin, (5 U.) 1504 S st.
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Instructor in Zoology, (28 N.) 1330 D st.
- H. ELTON FULMER, M. A.,
Instructor in Chemistry, (3 C.) 1924 R st.
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Instructor in Modern Languages, (28 U.) 830 N. 23d st.

Faculty, and other Officers

9

- ERMINA D. COCHRAN, M. A.,
Teacher of Piano, Organ and Voice
Culture, (7 U.) Room 6, Ledwith Block.
- HERBERT J. WEBBER, B. SC.,
Assistant in Botanical Laboratory, (11 N.) 1020 G st.
-
- J. STUART DALES, M. PH.,
Steward, (6 U.) 1242 P st.
- ELLEN SMITH, M. A.,
Registrar, and Custodian of Library, (11 U.) 1204 U st.
- MAX WESTERMANN,
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- S. W. PERIN,
Foreman of the College Farm. College Farm.

GRADUATE STUDENTS.

HELEN BARBARA AUGHEY, (Mrs. Elton Fulmer,) B. Sc. University of Nebraska, 1889.	} <i>Lincoln</i>	1924 R st.
J. AMOS BARRETT, B. A., University of Nebraska, 1888.	} <i>Lincoln</i>	1611 Q st.
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EDNA DEAN BULLOCK, B. L., University of Nebraska, 1889.	} <i>Lincoln</i>	1449 S st.
VERNON J. EMERY, B. A., Ohio State University, 1887.	} <i>Lincoln</i>	1504 S st.
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MARTIN OSTERHOLM, B. A , Augustana College, Rock Island, Illinois, 1885.	} <i>Essex, Iowa</i>	1312 K st.
NOVIA Z. SNELL, B. Sc., University of Nebraska, 1882.	} <i>Lincoln</i>	Cor. 33d and Randolph sts.
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GRADUATE STUDENTS, 15.

ACADEMIC COLLEGE.

(COLLEGE OF LITERATURE, SCIENCE AND THE ARTS.)

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- CHARLES E. BESSEY, PH. D., *Botany*, DEAN.
 HENRY E. HITCHCOCK, PH. D., *Mathematics*.
 GEORGE McMILLAN, PH. D., *Greek*.
 GEORGE E. HOWARD, M. A., *History*.
 GROVE E. BARBER, M. A., *Latin*.
 HUDSON H. NICHOLSON, M. A., *Chemistry*.
 LUCIUS A. SHERMAN, PH. D., *English Literature*.
 LEWIS E. HICKS, PH. D., *Geology and Allied Sciences*.
 AUGUST H. EDGREN, PH. D., *Modern Languages and Sanskrit*.
 RACHEL LLOYD, PH. D., *Analytical Chemistry*.
 DEWITT B. BRACE, PH. D., *Physics*.
 HOWARD W. CALDWELL, B. PH., *History*.
 EBENEZER W. HUNT, B. A., *Rhetoric and Oratory*.
 THOMAS W. GRIFFITH, U. S. A., *Military Science and Tactics*.
 AMOS G. WARNER, PH. D., *Political and Economic Science*.
 JAMES T. LEES, PH. D., *Classical Philology*.
 SARAH WOOL MOORE, *History of Art*.
 HARRY K. WOLFE, PH. D., *Philosophy*.
 LAURENCE FOSSLER, B. SC., *Modern Languages*.

STUDENTS.

SENIORS.

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SENIORS, 20.

JUNIORS.

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Charles Buckingham Gregory, CL.	<i>Lincoln</i>	1230 L st.
Norman Widaman Peters, LIT.	<i>Albion</i>	41 Webster Blk.
Henry Allen Reese, LIT.	<i>Wahoo</i>	1447 Q st.
Anna Rogers, CL.	<i>Lincoln</i>	937 L st.
Belle Rogers, CL.	<i>Lincoln</i>	937 L st.
Charles Daniel Schell, CL.	<i>Beatrice</i>	1453 U st.
Sara Schwab, CL.	<i>Lincoln</i>	Cor. 16th and L sts.
William James Taylor, CL.	<i>Lincoln</i>	1730 E st.
Mary Elizabeth Wedgwood, CL.	<i>Lincoln</i>	902 C st.
William Herbert Wheeler, LIT.	<i>Omaha</i>	41 Webster Blk.
Elinor Louise Williams, CL.	<i>Lincoln</i>	1332 K st.
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JUNIORS, 23.

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E. izabeth Content Field, LIT.	<i>Lincoln</i>	2410 Q st.
Emory Charles Hardy, LIT.	<i>Lincoln</i>	1825 M st.
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Frederick Dayton Hyde, CL.	<i>Lincoln</i>	1045 C st.
Charles Bigelow Jackson, CL.	<i>Fremont</i>	442 N. 12th st.
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Lydia Alberta Mullon, CL.	<i>Lincoln</i>	1311 N st.
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Louise Pound, LIT.	<i>Lincoln</i>	1542 P st.
George Lawson Sheldon, LIT.	<i>Nehawka</i>	2 Mayes Blk.
Lura Adelia Stockton, LIT.	<i>Lincoln</i>	1201 U st.
Galen Lamar Tait, LIT.	<i>Beatrice</i>	4 State Blk.
Josephine Treeman, CL.	<i>Lincoln</i>	1318 R st.
Thomas Frederick Williams, LIT.	<i>Portsmouth, Ia.</i>	2847 T st.

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FRESHMEN.

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Lyman Beecher Cornell, LIT.	<i>Verdon</i>	1830 L st.
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Edgar Ferneau, CL.	<i>Auburn</i>	442 N. 12th st.
Lulu Helen Fletcher, CL.	<i>Lincoln</i>	811 G st.
Charles Bingham Goodell, LIT.	<i>Wilber</i>	1617 V st.
Jessie Wilmina Goodell, LIT.	<i>Wilber</i>	1617 V st.
John Cecil Graham, CL.	<i>Stella</i>	1500 S st.
Arcule Edward Guilmette, CL.	<i>Hastings</i>	1025 H st.
May Gund, LIT.	<i>Wilber</i>	1617 V st.
Walter Van Fleet Hoagland, LIT.	<i>North Platte</i>	1305 T st.
James Harvey Hooper, LIT.	<i>Lincoln</i>	Cor. 29th and U sts.

Ralph Emery Johnson, LIT.	<i>Lincoln</i>	889 N. 27th st.
Julia Marie Korsmeyer, CL.	<i>Lincoln</i>	923 S. 19th st.
Fannie Land, CL.	<i>Lincoln</i>	1001 Pine st.
Fred Joseph Larson, CL.	<i>Ulysses</i>	845 N. 16th st.
Olive Latta, LIT.	<i>Lincoln</i>	1128 L st.
Derrick Norman Lehmer, CL.	<i>Lincoln</i>	1636 Locust st.
Harrison Springfield Lord, CL.	<i>Ulysses</i>	320 N. 11th st.
Oliver Morton Males, CL.	<i>Lincoln</i>	1827 L st.
Duty Mansfeldt, LIT.	<i>Ashland</i>	1942 Euclid ave.
John Law Marshall, Jr., CL.	<i>Pawnee City</i>	Hotel Ideal.
Randolph McNitt, CL.	<i>Red Cloud</i>	1600 P st.
Elizabeth Merrill, LIT.	<i>Sterling</i>	441 N. 16th st.
Russell Neumann, LIT.	<i>Oakland</i>	524 N. 12th st.
Paul Pizey, LIT.	<i>Dakota City</i>	418 N. 12th st.
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Willets Herbert Sawyer, LIT.	<i>Lincoln</i>	2800 R st.
James Joseph Sayer, LIT.	<i>Lincoln</i>	1635 Vine st.
Henry Allen Shannon, LIT.	<i>Lincoln</i>	1226 S st.
Joseph Reed Shannon, LIT.	<i>Lincoln</i>	1226 S st.
Charles Francis Stroman, CL.	<i>Ulysses</i>	320 N. 11th st.
Florence Sebrina Smith, CL.	<i>Lincoln</i>	626 S. 13th st.
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William Francis Wolfe, Jr., CL.	<i>Friend</i>	1215 U st.
Clarence Hubert Woods, LIT.	<i>Lincoln</i>	326 N. 17th st.
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Maud Adelia Burr	<i>Lincoln</i>	1900 D st.
Ada Bertha Caldwell	<i>Lincoln</i>	2400 Lynn Ave.
Idear Annita Cornell	<i>Verdon</i>	1830 L st.
Senora Katherine Cornell	<i>Verdon</i>	1830 L st.
Herbert Edson Covell	<i>Plattsmouth</i>	1004 T st.
Kittie Cowdery	<i>Lincoln</i>	1102 H st.

Harriet Marie Curtiss	<i>Lincoln</i>	925 C st.
Inez Dorris	<i>Lincoln</i>	503 S. 11th st.
Mrs. Franc R. Elliott	<i>Lincoln</i>	307 S. 14th st.
Phoebe Leech Elliott	<i>Lincoln</i>	321 S. 14th st.
Mary Ellen Faulkner	<i>Zuma, Colo.</i>	1617 V st.
Annie Laura Funke	<i>Lincoln</i>	1021 D st.
Martha Funke	<i>Lincoln</i>	Cor. 13th and H sts.
Katharine Baldrige Graham	<i>Alleghany, Pa.</i>	500 N. 16th st.
Lulu Marie Green	<i>Lincoln</i>	227 N. 12th st.
Grace Griffith	<i>Lincoln</i>	1448 L st.
Camma Cornelia Hall	<i>Verdon</i>	1228 Q st.
Miriam Frances Hibbard	<i>York</i>	1633 Q st.
Hayden Thomas Hyatt	<i>Lincoln</i>	1230 P st.
May Hopper	<i>Thayer</i>	1633 Q st.
Helena Lau	<i>Lincoln</i>	1040 D st.
Theodosia Calhoun Laws	<i>Lincoln</i>	1108 H st.
Mrs. Henry E. Lewis	<i>Lincoln</i>	Cor. 27th and N sts.
Avis Belle Manley	<i>Lincoln</i>	1100 D st.
Ethel May Marsland	<i>Lincoln</i>	357 S. 28th st.
Bertha McMillan	<i>Lincoln</i>	1503 H st.
Minnie Julia Moore	<i>Lincoln</i>	705 N. 25th st.
Elinor Ann Mullon	<i>Lincoln</i>	1311 N st.
William O'Shea, Jr.	<i>Linco'n</i>	1804 Q st.
Jacob Oppenheimer	<i>Lincoln</i>	1721 P st.
Mary Elizabeth Passmore	<i>Lincoln</i>	1310 S st.
Mrs. Jennie Rehlaender	<i>Lincoln</i>	1220 R st.
Frank Augustus Rockhold	<i>Wymore</i>	1346 S st.
Hattie Victoria Ruliffson	<i>Lincoln</i>	1551 R st.
Catherine Duncan Scothorn	<i>Lincoln</i>	3021 Q st.
Nellie May Scott	<i>Tecumseh</i>	Ledwith block.
Lenhart Otho Shrader	<i>Logan</i>	516 N. 12th st.
Marie Lavinia Sundean	<i>Lincoln</i>	1501 Q st.
Georgia Talbot	<i>Syracuse</i>	1844 D st.
Eda Tibbles	<i>Bancroft</i>	441 N. 10th st.
Kate Upton	<i>Lincoln</i>	2140 R st.
Clara Augusta Walsh	<i>Lincoln</i>	1336 J st.
Cora Ella Weaver	<i>Lincoln</i>	1823 F st.
Hans Theodore Westermann	<i>Lincoln</i>	245 S. 15th st.
Caroline Jeanette Wilson	<i>Lincoln</i>	335 N. 14th st.
Bessie Russell Wing	<i>Lincoln</i>	2206 S. 14th st.

SPECIAL STUDENTS, 49.

INDUSTRIAL COLLEGE.

FACULTY AND OTHER INSTRUCTORS.

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 HENRY E. HITCHCOCK, PH. D., *Mathematics*.
 GEORGE E. HOWARD, M. A., *History*.
 HUDSON H. NICHOLSON, M. A., *Chemistry*.
 LUCIUS A. SHERMAN, PH. D., *English Literature*.
 CHARLES N. LITTLE, PH. D., *Civil Engineering*.
 CHARLES E. BESSEY, PH. D., *Botany and Horticulture*.
 AUGUST H. EDGREN, PH. D., *Modern Languages*.
 RACHEL LLOYD, PH. D., *Analytical Chemistry*.
 DEWITT B. BRACE, PH. D., *Physics*.
 HOWARD W. CALDWELL, B. PH., *History*.
 EBENEZER W. HUNT, B. A., *Rhetoric and Oratory*.
 THOMAS W. GRIFFITH, U. S. A., *Military Science and Tactics*.
 J. STERLING KINGSLEY, D. SC., *Agriculture and Biology*.
 AMOS G. WARNER, PH. D., *Political and Economic Science*.
 HON. ROBERT W. FURNAS, *Forestry*.
 HAROLD N. ALLEN, B. SC., *Physics*.
 SARAH WOOL MOORE, *History of Art*.
 HARRY K. WOLFE, PH. D., *Philosophy*.
 BOHUMIL SHIMEK, C. E., *Zoology*.
 H. ELTON FULMER, M. A., *Chemistry*.
 LAURENCE FOSSLER, B. SC., *Modern Languages*.

STUDENTS.

SENIORS.

Frank Fayette Almy, Sc.	<i>Greenwood</i>	University Hall.
Amos Calvin Cope, Sc.	<i>Lincoln</i>	26 Appleget Block.
Henry Bruce Duncanson, Sc.	<i>Aurora</i>	345 N. 13th st.
Thomas Herbert Marsland, AGR.	<i>Lincoln</i>	357 S. 28th st.
Hans Christian Peterson, Sc.	<i>Lincoln</i>	902 S. 8th st.
Francis Wayland Russell, Sc.	<i>Ord</i>	Nebraska Hall.

Industrial College

17

Lewis Herbert Stoughton, AGR.	<i>Perry, Iowa</i>	629 N. 12th st.
Lacius Seymour Storrs, SC.	<i>Denver, Colo.</i>	1228 P st.
Charles Edward Tingley, SC.	<i>Lincoln</i>	3045 O st.
George Henry Tinker, ENG.	<i>Lincoln</i>	545 N. 28th st.
Abel Evenson Wagner, SC.	<i>Beatrice</i>	851 N. 14th st.
Albert Fred Woods, SC.	<i>Lincoln</i>	Cor. J and 26th sts.

SENIORS, 12.

JUNIORS.

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David Avery Haggard, SC.	<i>Lincoln</i>	1320 G st.
Charles Amidde Helvie, SC.	<i>Selma, Ind.</i>	1522 S st.
Paul Llewellyn Hibbard, SC.	<i>York</i>	1633 Q st.
Hervey Bryan Hicks, SC.	<i>Lincoln</i>	1809 P st.
James Warren McCrosky, SC.	<i>Tecumseh</i>	1346 S st.
Guy Plummer Thurber, SC.	<i>Lincoln</i>	831 N. 14th st.
Albert Melville Troyer, AGR.	<i>Dorchester</i>	944 T st.

JUNIORS, 9.

SOPHOMORES.

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Burt Bonnell, SC.	<i>Omaha</i>	1301 C st.
William Ellsworth Brook, ENG.	<i>Ashland</i>	442 N. 12th st.
Theophil Brugger, SC.	<i>Belleue</i>	University Hall.
Charles DeLong Chandler, SC.	<i>Lincoln</i>	1710 D st.
Rupert Dinges, SC.	<i>Lincoln</i>	845 S st.
Frederick Courtland Kenyon, SC.	<i>Unadilla</i>	1700 J st.
Morgan McQuown Maghee, SC.	<i>Rawlins, Wyo.</i>	Tremont House.
Francis Parker McFarland, SC.	<i>Lincoln</i>	315 N. 14th st.
Hugo Emil Nelson, SC.	<i>Oakland</i>	524 N. 12th st.
James Chester Porterfield, ENG.	<i>Fullerton</i>	442 N. 12th st.
Herbert Almon Senter, ENG.	<i>Bancroft</i>	116 S. 11th st.
Charles McLellan Skiles, SC.	<i>Elmwood</i>	629 N. 12th st.
William Lester Stockton, SC.	<i>Lincoln</i>	1201 U st.
Leroy Ellsworth Troyer, SC.	<i>Dorchester</i>	944 T st.
Charles Percy Walter, SC.	<i>Lincoln</i>	1301 C st.
Jacob Butler White, SC.	<i>Lincoln</i>	University Place.
Jacob Vance Wolfe, Jr., SC.	<i>Lincoln</i>	1425 U st.
Bruce Clinton Yates, ENG.	<i>Lincoln</i>	1631 Q st.

SOPHOMORES, 19.

FRESHMEN.

Juergen Albers, Sc.	<i>Tecumseh</i>	320 N. 11th st.
Harry Gardner Barber, Sc.	<i>Lincoln</i>	1806 D st.
Oscar Rufus Bowman, Sc.	<i>Lincoln</i>	948 N. 30th st.
Wilford Arthur Deweese, Sc.	<i>Lincoln</i>	1600 J st.
Frank DeWitt Eager, Sc.	<i>Lincoln</i>	835 N. 14th st.
Christine Fossler, Sc.	<i>Lincoln</i>	734 N. 9th st.
Mary Louise Fossler, Sc.	<i>Lincoln</i>	734 N. 9th st.
Vesta Gray, Sc.	<i>Fremont</i>	815 S. 13th st.
Fred Gund, Sc.	<i>Wilber</i>	1617 V st.
Anna Howard, Sc.	<i>Fremont</i>	815 S. 13th st.
Edna Elizabeth Hyatt, Sc.	<i>Lincoln</i>	1336 M st.
Erasmus Madison, Sc.	<i>Arapahoe</i>	1724 S. 17th st.
Griffith Holmes Maghee, Sc.	<i>Ravolins, Wyo.</i>	Tremont House.
Carlton Claymer Marley, Sc.	<i>Lincoln</i>	Cor. 23d and B sts.
Clyde Warren McCarger, Sc.	<i>Lincoln</i>	1200 T st.
Louisa McDermott, Sc.	<i>Sutton</i>	1453 U st.
Emily Grace Moore, Sc.	<i>York</i>	739 N. 11th st.
Edward Everett Nicholson, Sc.	<i>Lincoln</i>	825 S. 31st st.
Joseph Stras Peery, Sc.	<i>Ogden, Utah</i>	1446 Q st.
Christian Rohwer, Sc.	<i>De Soto</i>	829 N. 16th st.
Floyd Seybolt, Sc.	<i>Lincoln</i>	245 S. 26th st.
Lewis Gilmore Thayer, Sc.	<i>Iola, Kans.</i>	1420 V st.
Francis Fisher Tucker, Sc.	<i>Lincoln</i>	2003 G st.
Raymond Welch, Sc.	<i>Lincoln</i>	1335 G st.
Clarence Dudley Wright, Sc.	<i>Ulita</i>	528 N. 13th st.

FRESHMEN, 25.

SPECIAL STUDENTS.

Joseph Allen Barris	<i>New Brighton, Pa.</i>	4 State Block.
Henry Waldo Bouton	<i>Sabetha, Kans.</i>	345 N. 13th st.
Rosa Bouton	<i>Sabetha, Kans.</i>	1528 P st.
Lucena Anna Hardin	<i>Lincoln</i>	346 N. 17th st.
Charles Fremont Harlan	<i>Waco</i>	436 N. 12th st.
Parkason James Jewell	<i>Waverly</i>	556 N. 14th st.
Harvey Lewis Klock	<i>Lincoln</i>	122 S. 10th st.
Niels Olsen, Jr.	<i>Lincoln</i>	1137 U st.
Grace Pershing	<i>Chicago, Ill.</i>	1637 R st.
May Pershing	<i>Chicago, Ill.</i>	1637 R st.
Isabelle Wheeler	<i>Adrian, Mich.</i>	7 Ledwith Block.

SPECIAL STUDENTS, 11.

LATIN SCHOOL.

INSTRUCTORS.

JAMES T. LEES, PH. D., PRINCIPAL, *Latin and Greek.*

HAROLD N. ALLEN, B. SC., *Physics.*

CHARLES E. BESSEY, PH. D., *Botany.*

HOWARD W. CALDWELL, B. PH., *History.*

VERNON J. EMERY, B. A., *Latin.*

H. ELTON FULMER, M. A., *Chemistry.*

T. MOREY HODGMAN, B. A. *Mathematics.*

EBENEZER W. HUNT, B. A., *English.*

STUDENTS.

SECOND YEAR.

Oscar Ludwig Anderson	<i>Wahoo</i>	2123 K st.
George Ira Babcock	<i>North Loup</i>	1304 J st.
Helen Arzilla Bain	<i>Lincoln</i>	1635 E st.
Jesse Bradford Becher	<i>Columbus</i>	439 N. 13th st.
Ida Rebecca Brockman	<i>Humboldt</i>	1228 Q st.
Roland Stanton Bulla	<i>St. Edwards</i>	1407 Q st.
Paul Burleigh	<i>Magdalena</i>	334 N. 17th st.
Nellie Sherer Cochrane	<i>Lincoln</i>	1141 D st.
Ulysses Grant Cornell	<i>Lincoln</i>	1830 L st.
Charles Edward Doran	<i>Sidney</i>	442 N. 12th st.
Estelle Emma Ducker	<i>Red Cloud</i>	435 N. 10th st.
William Lyon Ducker	<i>Red Cloud</i>	1600 P st.
Lee Wilson Edwards	<i>Lincoln</i>	2223 N st.
Mary Grace Edwards	<i>Lincoln</i>	2223 N st.
William Forsyth	<i>New Helena</i>	1811 G st.
Charles Leroy French	<i>Friend</i>	436 N. 12th st.
Ernest Allen Gerrard	<i>Columbus</i>	429 N. 13th st.
Robert Warren Gilbert	<i>Lincoln</i>	1309 A st.
Nellie Grace Goshorn	<i>Winterset, Iowa</i>	1720 N st.
Henry Murray James	<i>Lincoln</i>	Cor 20th and Wash. sts.
Ralph Henry Johnson	<i>Friend</i>	1215 U st.

Arthur Glynn Kavanaugh	<i>Tecumseh</i>	N. 14th st.
Joseph Lownes	<i>Lincoln</i>	1915 K st.
Charles Anson Lyman	<i>Lincoln</i>	1119 H st.
George Malcolm	<i>Lincoln</i>	710 C st.
Gertrude Emma Marsland	<i>Lincoln</i>	357 S. 28th st.
Otto Gabriel Miller	<i>Syracuse</i>	1634 P st.
George Henry Palmer	<i>Plattsmouth</i>	1025 H st.
George Endres Payne	<i>Hastings</i>	120 S. 10th st.
Henry Joseph Podlesak	<i>Milligan</i>	Cor. E and 4th sts.
Hadley Winfield Quaintance	<i>Cable, Ill.</i>	436 N. 12th st.
William Colfax Roberts	<i>East Lincoln</i>	
Lucius Whittlesey Sherman	<i>Lincoln</i>	245 S. 15th st.
Clarence Tefft	<i>Avoca</i>	4 Mayes Block.
Edward Thomas	<i>Falls City</i>	1229 S st.
Elizabeth Ann Tuttle	<i>Lincoln</i>	2225 N st.
Charles Richard Welden	<i>Lexington</i>	1210 P st.
Roy McMillan Wheeler	<i>Creston, Ill.</i>	1503 H st.
Alice Earl Wing	<i>Lincoln</i>	2206 S. 14th st.
Mrs. A. G. Wolfenbarger	<i>Lincoln</i>	Cor. T and 29th sts.

SECOND-YEAR STUDENTS, 40.

FIRST YEAR.

Helen Louise Adams	<i>Argenta, Ill.</i>	429 N. 13th st.
Lotta Maud Adams	<i>Argenta, Ill.</i>	429 N. 13th st.
Charles Alexander	<i>Red Oak, Iowa</i>	Windsor Hotel.
Mary Henderson Ames	<i>Lincoln</i>	1020 H st.
Elias West Arnold	<i>Larned, Kans.</i>	2345 R st.
John Vawter Beachly	<i>Lincoln</i>	1246 K st.
Joseph Penfield Beardsley	<i>Lincoln</i>	221 S. 15th st.
V. Alice Beeson	<i>Marshalltown, Iowa</i>	25-- T st.
Cynthia Ann Becker	<i>Bennet</i>	527 S. 11th st.
Henry John Beckman, Jr.	<i>Malcolm</i>	731 F st.
Charles Henry Blanchard	<i>Arlington</i>	1310 S st.
Frank Brown	<i>Talmage</i>	1201 U st.
*William Frank Bulla	<i>St. Edwards</i>	1407 Q st.
William Morley Cain	<i>Leigh</i>	Hotel Mack.
Mary Eveline Chappell	<i>Neligh</i>	Cor. 30th and L sts.
Robert Lee Cheney	<i>Dakota City</i>	1641 P st.
Jennie May Chisman	<i>Lincoln</i>	1637 G st.
Louise Anna Clark	<i>Lincoln</i>	1840 O st.
Nellie May Clark	<i>Lincoln</i>	1840 O st.

* Deceased.

William Best Clark	<i>Lincoln</i>	Cor. 33d and O sts.
George Samuel Clason	<i>Lincoln</i>	935 C st.
George Spencer Cushman	<i>Leigh</i>	410 N. 12th st.
Allen Ervine	<i>Omaha</i>	320 N. 11th st.
Cora Alda Garber	<i>Red Cloud</i>	435 N. 10th st.
Mariel Clapham Gere	<i>Lincoln</i>	1700 J st.
Albert Dudley Graham	<i>North Bend</i>	76 Burr Block.
Gilman Adelbert Hackett	<i>Neligh</i>	1303 T st.
Gilbert Hoke Hall	<i>Vesdon</i>	1228 Q st.
Nellie Hill	<i>Rushville</i>	1723 K st.
Alice Cushman Hunter	<i>Lincoln</i>	1448 R st.
Walter David Hunter	<i>Lincoln</i>	1448 R st.
Stella Drusilla Irvine	<i>Lincoln</i>	1210 N st.
James Henry Johnston	<i>Humboldt</i>	1211 N st.
William Milton Johnston	<i>Humboldt</i>	1211 N st.
Jessie Belle Jury	<i>Lincoln</i>	4 McBride Blk.
James Proctor Knott	<i>York</i>	1336 S st.
Jessie Kramer	<i>Linc ln</i>	831 J st.
Ervin Marion Lamb	<i>Tecumseh</i>	1227 M st.
Fred Langworthy	<i>Seward</i>	1809 P st.
Gilbert Newton Lewis	<i>Lincoln</i>	Cor. 27th and M sts.
Mabel Elizabeth Lindley	<i>Lincoln</i>	1521 P st.
James Henry Loomis	<i>Union Mills, Ind.</i>	27th and N sts.
John Neriah Lottridge	<i>Lincoln</i>	1218 T st.
Josephine Lottridge	<i>Lincoln</i>	1218 T st.
James Manley	<i>Lincoln</i>	1100 D st.
Katie May Melick	<i>Davey</i>	825 N. 16th st.
John Stuart Miller	<i>Garrison</i>	827 N. 16th st.
Schuyler William Miller	<i>Blue Hill</i>	1641 P st.
Merta Moeller	<i>Friend</i>	445 N. 13th st.
Grace Morgan	<i>Lincoln</i>	2002 S st.
Louis Clark Oberlies	<i>Lincoln</i>	256 S. 28th st.
Stephen Patrick O'Hern	<i>De Land, Ill.</i>	1141 R st.
Edward Young Porter	<i>Lincoln</i>	1107 N st.
Edna Zelda Post	<i>York</i>	739 N. 11th st.
Olivia Pound	<i>Lincoln</i>	1542 P st.
James Joseph Purcell	<i>Lincoln</i>	Cor. 20th and J sts.
Seth Ellsworth Ragan	<i>Utica</i>	
Karl Randall	<i>Lincoln</i>	514 S. 13th st.
William Dickey Reed	<i>Lincoln</i>	2720 Q st.
Norman S. Richards	<i>Bradshaw</i>	1227 S st.
Mary Delia Riley	<i>Lincoln</i>	45th and Randolph sts.

Althea Blanche Roberts	<i>Rising City</i>	1629 R st.
Lulu Jennie Roberts	<i>Creigh'on</i>	445 N. 13th st.
Evaline Pearl Rolofson	<i>Lincoln</i>	840 Z st.
Alexander Howard Sch'egel	<i>Lincoln</i>	Cor. 11th and F sts.
Blanche Skidmore	<i>Lincoln</i>	655 N. 27th st.
William Francis Squire	<i>Fairbury</i>	Windsor Hotel.
Russell Flemming Stauffer	<i>Lincoln</i>	2540 Vine st.
Edmund Clemmens Strode	<i>Ipava, Ill.</i>	514 S. 16th st.
Nellie Viola Sullivan	<i>Denton</i>	321 S. 17th st.
May Evaline Thurber	<i>Lincoln</i>	831 N. 14th st.
Helen Mildred Torbitt	<i>Lincoln</i>	1625 E st.
George Lewis Town	<i>Kennard</i>	320 N. 11th st.
Nellie Tynan	<i>Stella</i>	1830 L st.
Henry Conde Upton	<i>Lincoln</i>	Cor. 21st and R sts.
Augustus Muhlenberg Van Derslice	<i>Cheney</i>	Cor. 9th and Z sts.
James Lincoln Wallace	<i>Almena, Kans.</i>	1240 J st.
Oreal Sidney Ward	<i>Lincoln</i>	821 J st.
Horace Greeley Whitmore	<i>Emerald</i>	733 N. 15th st.
Mell Orlando Wolcott	<i>Elk City</i>	1310 S. st.
Mary Tifford Wolfe	<i>Lincoln</i>	1425 U st.
Charles Atkinson Yont	<i>Brock</i>	1208 O st.
Frank Gilmer Zeigler	<i>Tama, Iowa</i>	2102 K st.

FIRST-YEAR STUDENTS, 83.

SPECIAL STUDENTS.

Eugene Wayland Brown	<i>Lincoln</i>	221 S. 27th st.
Nellie Josephine Cornell	<i>Holdrege</i>	945 J st.
Willie Ebenezer Ellis	<i>Lincoln</i>	535 N. 16th st.
Mrs. O'Hara Ferguson	<i>Lincoln</i>	Cor. 20th and Wash. sts.
Kate Adelle Fisher	<i>Geneva</i>	Conservatory of Music.
Alice Louisa Hawes	<i>Lincoln</i>	1505 S st.
Truman Mitchell Ransom	<i>Lincoln</i>	1425 S st.
William Austin Richmond	<i>Utica</i>	528 N. 13th st.
Cora Frances Smith	<i>Lincoln</i>	1631 F st.
Edward Wellington Stone	<i>Hastings</i>	1228 Q st.
Almon Tower	<i>Lincoln</i>	307 N. 24th st.
Julius Tyndale Westermann	<i>Decatur, Ill.</i>	245 S. 15th st.
Donna A. Wilson	<i>Nebraska City</i>	1328 A st.
Josephine Weaver Winger	<i>Lincoln</i>	1200 G st.
George Jediah Woods	<i>Lincoln</i>	Cor. J and 26th sts.

SPECIAL STUDENTS, 15.

SCHOOL OF FINE ARTS.

SARAH WOOL MOORE, *Art History, Painting and Drawing.*
 ERMINA D. COCHRAN, M. A., *Piano and Voice.*
 GUSTAV C. MENZENDORF, *Violin, Harmony and Counterpoint.*

ART STUDENTS.

Helen Louise Adams	Drawing	<i>Argenta, Ill.</i>
George Ira Babcock	Drawing	<i>North Loup.</i>
Henry Waldo Bouton	Drawing	<i>Sabetha, Kans.</i>
Helen Arzilla Bain	Drawing	<i>Lincoln.</i>
Daniel Wesley Bush	Art History	<i>Lincoln.</i>
Mary Isabel Brown	Art History	<i>Lincoln.</i>
Abbie I. Beardsley	Dwg., Art Hist., and Anatomy	<i>Weeping Water.</i>
William Best Clark	Drawing	<i>Lincoln.</i>
Mary Cornell	Art History	<i>Lincoln.</i>
Ulysses Grant Cornell	Drawing	<i>Verdon.</i>
Elizabeth C. Crowley	Drawing and Art History	<i>Friend.</i>
Charles Edward Doran	Drawing	<i>Sidney.</i>
Estelle Emma Ducker	Drawing	<i>Red Cloud.</i>
William Lyon Ducker	Drawing	<i>Red Cloud.</i>
Margaret Davis	Drawing	<i>Lincoln.</i>
Margaret Duffey	Dwg., Painting, and Art Hist.	<i>Brookings, S. Dak.</i>
Lee Wilson Edwards	Drawing	<i>Lincoln.</i>
Mary Grace Edwards	Drawing	<i>Lincoln.</i>
Mary Ellen Faulkner	Art History	<i>Zuma, Colo.</i>
Jean Faxon	Drawing	<i>Lincoln.</i>
Winifred Ferguson	Drawing and Painting	<i>Lincoln.</i>
William Forsyth	Drawing	<i>New Helena.</i>
Cora Alda Garber	Drawing	<i>Red Cloud.</i>
Nellie Grace Goshorn	Drawing	<i>Winterset, Iowa.</i>
Gilbert Hoke Hall	Drawing	<i>Verdon.</i>
Thomas Lee Hall	Art History	<i>Verdon.</i>
Louis Hamilton	Drawing	<i>Omaha Indian Reserv.</i>
Lucena Anna Hardin	Drawing	<i>Lincoln.</i>

Dora Harley	Drawing	<i>Lincoln.</i>
Lillian Hathaway	Painting	<i>Lincoln.</i>
Alice Louisa Hawes	Drawing	<i>Lincoln.</i>
Miriam Frances Hibbard	Drawing	<i>York.</i>
May Hopper	Drawing	<i>Thayer.</i>
Hayden Thomas Hyatt	Drawing	<i>Lincoln.</i>
Henry Murray James	Drawing	<i>Lincoln.</i>
Woodward Jones	Drawing	<i>Lincoln.</i>
Mary S. Kirkpatrick	Drawing, Art History	<i>Nehawka.</i>
James Proctor Knott	Drawing	<i>York.</i>
Theodosia Calhoun Laws	Drawing	<i>Lincoln.</i>
Anna B. Lees	Drawing	<i>Lincoln.</i>
Julia C. Lippincott	Drawing	<i>Lincoln.</i>
Edith Long	Drawing	<i>Lincoln.</i>
John Neriah Lottridge	Drawing	<i>Lincoln.</i>
Joseph Lownes	Drawing	<i>Lincoln.</i>
Charles Anson Lyman	Drawing	<i>Lincoln.</i>
Minnie J. McClay	Drawing	<i>Lincoln.</i>
George Malcolm	Drawing	<i>Lincoln.</i>
Gertrude Emma Marsland.	Drawing	<i>Lincoln.</i>
Elizabeth Merrill	Drawing	<i>Lincoln.</i>
Edward Everett Nicholson	Drawing	<i>Lincoln.</i>
Mary Elizabeth Passmore	Art History	<i>Lincoln.</i>
George Endres Payne	Drawing	<i>Hastings.</i>
Henry Joseph Podlesak	Drawing	<i>Milligan.</i>
Hadley Winfield Quaintance	Drawing	<i>Cable, Ill.</i>
William Dickey Reed	Drawing	<i>Lincoln.</i>
Norman S. Richards	Drawing	<i>Bradshaw.</i>
William Austin Richmond	Drawing	<i>Utica.</i>
Alice Righter	Drawing	<i>Lincoln.</i>
Sarah Riley	Drawing and Anatomy	<i>Lincoln.</i>
Lucius Whittlesey Sherman	Drawing	<i>Lincoln.</i>
Edith Taylor	Drawing, Art History	<i>Lincoln.</i>
Clarence Tefft	Drawing	<i>Avoca.</i>
Edward Thomas	Drawing	<i>Falls City.</i>
Mary Thompson	Drawing	<i>Lincoln.</i>
A'mon Tower	Drawing	<i>Lincoln.</i>
George Lewis Town	Drawing	<i>Kennard.</i>
Albert Melville Troyer	Drawing	<i>Dorchester.</i>
Elizabeth Ann Tuttle	Drawing	<i>Lincoln.</i>
Augustus Muhlenberg Van Derslice	Drawing	<i>Cheney.</i>
Adele Wade	Art History	<i>Lincoln.</i>

Helen Wade	Drawing	<i>Lincoln.</i>
Charles Richard Welden	Drawing	<i>Lexington.</i>
Mildred Wilkins	Drawing	<i>Lincoln.</i>
Donna A. Wilson	Dwg., Art Hist., Anat.	<i>Nebraska City.</i>
Mrs. A. G. Wolfenbarger	Drawing	<i>Lincoln.</i>
George Jediah Woods	Drawing	<i>Lincoln.</i>

ART STUDENTS, 76.

MUSIC STUDENTS.

Lotta Maud Adams	Piano	<i>Argenta, Ill.</i>
Charles Alexander	Voice	<i>Omaha.</i>
Alice Barber	Violin	<i>Lincoln.</i>
V. Alice Beeson	Voice	<i>Marshalltown, Iowa.</i>
Alma C. Benedict	Piano	<i>Lincoln.</i>
Haydee Bierwirth	Piano	<i>Lincoln.</i>
Ida Bierwirth	Piano and Violin	<i>Lincoln.</i>
Fannie M. Binford	Piano	<i>Lincoln.</i>
Lizzie C. Boggs	Piano	<i>Lincoln.</i>
Anna Botsford	Piano	<i>Lincoln.</i>
Florence Botsford	Piano	<i>Lincoln.</i>
Mrs. Florence Botsford	Piano	<i>Lincoln.</i>
Horace Botsford	Piano	<i>Lincoln.</i>
Katie Botsford	Piano	<i>Lincoln.</i>
May Bradt	Violin	<i>Beatrice.</i>
Grace Burr	Violin	<i>Lincoln.</i>
Mrs. D. M. Butler	Voice	<i>Osceola.</i>
Mrs. C. A. Caldwell	Piano	<i>Wilber.</i>
Ella V. Chappell	Piano	<i>Lincoln.</i>
Myra Elizabeth Clark	Harmony	<i>Sutton.</i>
Howard Clemmer	Violin	<i>Beatrice.</i>
Nellie Cornell	Piano and Sight Reading	<i>Holdrege.</i>
Kittie Cowdery	Piano, Violin and Harmony	<i>Lincoln.</i>
Mary Cunningham	Piano and Organ	<i>Lincoln.</i>
Ross P. Curtice	Piano	<i>Lincoln.</i>
Harry Everett	Mandolin	<i>Lincoln.</i>
Mary Ellen Faulkner	Piano and Sight Reading	<i>Zuma, Colo.</i>
Anna Funke	Piano	<i>Lincoln.</i>
John W. Francis	Violin	<i>Beatrice.</i>
Jessie Wilmina Goodell	Piano	<i>Wilber.</i>
Vesta Gray	Piano	<i>Fremont.</i>
Ella Griffith	Piano	<i>Pawnee City.</i>
Anna Grim	Piano	<i>Lincoln.</i>

May Gund	Piano	<i>Wilber.</i>
George Holmes	Piano	<i>Lincoln.</i>
Anna Howard	Piano	<i>Fremont.</i>
Hayden Thomas Hyatt	Voice	<i>Lincoln.</i>
Katie Joyce	Piano	<i>Lincoln.</i>
John A. Kees	Violin	<i>Beatrice.</i>
Louie Lang	Violin	<i>Beatrice.</i>
Helena Lau	Piano	<i>Lincoln.</i>
Derrick N. Lehmer	Violin	<i>Lincoln.</i>
Leigh Leighton	Violin	<i>Lincoln.</i>
Mabel Leonard	Violin	<i>Beatrice.</i>
Edith Lewis	Violin	<i>Lincoln.</i>
Ily E. Loder	Piano	<i>Waverly.</i>
Dena Kate Loomis	Voice	<i>Lincoln.</i>
Avis Belle Manley	Piano and Harmony	<i>Lincoln.</i>
Carrie McClurkin	Piano, Violin and Harmony	<i>Wahoo.</i>
Louisa McDermott	Piano	<i>Sutton.</i>
Merta Moeller	Piano	<i>Friend.</i>
Minnie Julia Moore	Voice	<i>Lincoln.</i>
Hattie Morgan	Piano	<i>Lincoln.</i>
Louis Clark Oberlies	Piano	<i>Lincoln.</i>
May Pershing	Piano	<i>Chicago, Ill.</i>
Grace Pershing	Voice	<i>Chicago, Ill.</i>
Martin Peters	Violin	<i>Beatrice.</i>
Alfred Pizey	Voice	<i>Dakota City.</i>
Paul Pizey	Piano	<i>Dakota City.</i>
Edna Z. Post	Voice	<i>York.</i>
Louise Pound	Piano and Sight Reading	<i>Lincoln.</i>
Olivia Pound	Voice	<i>Lincoln.</i>
Cora Reed	Violin	<i>Beatrice.</i>
Harry A. Reese	Voice	<i>Wahoo.</i>
Minnie Reetz	Piano	<i>Lincoln.</i>
Jennie Davis Rehlaender	Piano	<i>Lincoln.</i>
Daisy Reimers	Piano	<i>Lincoln.</i>
Jessie Robbins	Piano and Violin	<i>Beatrice.</i>
Hattie V. Ruliffson	Voice	<i>Lincoln.</i>
Alice Russell	Piano	<i>Ord.</i>
Paul Schaefer	Violin	<i>Lincoln.</i>
Grace E. Schlegel	Piano	<i>Lincoln.</i>
Nellie May Scott	Piano, Harmony, Voice	<i>Tecumseh.</i>
Charlotte P. Smith	Violin	<i>Beatrice.</i>
Cora Frances Smith	Voice	<i>Lincoln.</i>

Gertrude A. Smith	Piano and Harmony	<i>Lincoln.</i>
Jessie Miller Steele	Piano	<i>Lincoln.</i>
Clarence Stewart	Violin	<i>Lincoln.</i>
Grace Stull	Piano	<i>Lincoln.</i>
Guy P. Thurber	Voice	<i>Lincoln.</i>
May D. Tibbles	Voice	<i>Lincoln.</i>
Almon Tower	Voice	<i>Lincoln.</i>
Leroy Ellsworth Troyer	Voice	<i>Dorchester.</i>
D. B. Trumbull	Violin	<i>Roca.</i>
Lillian Upham	Piano	<i>Lincoln.</i>
Willert Warner	Violin	<i>Creighton.</i>
Henry Wiebe	Violin	<i>Beatrice.</i>
Burt Whedon	Violin	<i>Lincoln.</i>
Dennis White	Violin	<i>Beatrice.</i>
Halsey Yates	Piano	<i>Lincoln.</i>

MUSIC STUDENTS, 90.

UNIVERSITY ORCHESTRA.

GUSTAV C. MENZENDORF, Conductor and 1st Violin.
 ERMINA D. COCHRAN, Pianist.
 GEORGE B. FRANKFORTER, 1st Violin.
 IDA BIERWIRTH, 2d Violin.
 DERRICK N. LEHMER, 2d Violin.
 WILLIAM E. SHAW, Viola.
 LEON BAKER, Double Bass.
 CHAS. KEARNS, Flute.
 FRANK JOHNS, Clarinet.
 JAMES J. SAYER, 1st Cornet.
 FRED. LANGWORTHY, 2nd Cornet.
 OTTO G. MILLER, Trombone.

UNIVERSITY CHORUS.

SOPRANOS.

V. ALICE BEESON
 ALMA C. BENEDICT
 IDA BIERWIRTH
 LUCY C. BRAUN
 MAY GUND
 MINNIE J. MOORE
 EDNA Z. POST
 OLIVIA POUND
 NELLIE M. SCOTT
 MAY D. TIBBLES

TENORS.

CHARLES ALEXANDER
 OSCAR R. BOWMAN
 HAYDEN THOMAS HYATT
 DERRICK N. LEHMER
 ALBERT M. TROYER
 LEROY E. TROYER

ALTOS.

LIZZIE BONNELL
 IDA BONNELL
 ROSE E. COLLINS
 BELLE MANLEY
 GRACE MORGAN

BASSES.

THOMAS L. HALL
 GEORGE O. HEARN
 L. CLARK OBERLIES
 ALFRED PIZEY
 HARRY A. REESE
 FRANK C. TAYLOR
 GUY P. THURBER

MILITARY DEPARTMENT.

FIRST LIEUTENANT, T. W. GRIFFITH, 18th U. S. Infantry, *Commandant.*

BATTALION ORGANIZATION.

STAFF.

FRANK H. WOODS, Lieutenant and Adjutant.
T. L. HALL, 1st Lieutenant and Quartermaster.
CHAS. P. WALTER, Sergeant-Major.
C. C. FLETCHER, Color Sergeant.

BAND.

DAVID F. EASTERDAY, Instructor.
H. A. REESE, Drum Major.
WML E. BROOK, Eb Clarionet.
JUERGEN ALBERS, Eb Cornet.
FRED. LANGWORTHY, Solo Bb Cornet.
JAMES J. SAYER, 1st Bb Cornet.
E. W. ARNOLD, 2d Bb Cornet.
JACOB OPPENHEIMER, 3d Bb Cornet.
CHAS. ALEXANDER, Solo Alto.
R. STAUFFER, 1st Alto.
HARRY S. LORD, 2d Alto.
DERRICK N. LEHMER, 3d Alto.
N. S. RICHARDS, 1st Tenor.
J. L. CLEMONS, 2d Tenor.
S. C. OBERLIES, Trombone.
OTTO MILLER, Baritone.
A. M. ANDERSON, Bb Bass.
RUSSELL NEUMANN, Tuba.
A. M. TROYER, Bass Drum and Cymbals.
PAUL PIZEY, Snare Drum.

OFFICERS.

Co. A.

CAPT. T. H. MARSLAND.
 1ST LIEUT. L. S. STORRS.
 2D LIEUT. GEO. H. TINKER.

Co. C.

CAPT. H. LAMASTER.
 1ST LIEUT. E. FARMER.
 2D LIEUT. H. B. DUNCANSON.

Co. B.

CAPT. F. F. ALMY.
 1ST LIEUT. H. K. HEFFLEMAN.
 2D LIEUT. F. C. TAYLOR.

Co. D.

CAPT. H. C. PETERSON.
 1ST LIEUT. A. F. WOODS.
 2D LIEUT. A. C. COPE.

SERGEANTS.

Co. A.

1. D. A. HAGGARD.
 2. C. D. SCHELL.
 3. A. A. FAUROT.
 4. E. E. NICHOLSON.

Co. C.

1. E. P. BROWN.
 2. W. T. BROWN.
 3. H. E. NELSON.
 4. H. J. EDMISTON.

Co. B.

1. G. P. THURBER.
 2. P. L. HIBBARD.
 3. L. B. CORNELL.
 4. G. L. SHELDON.

Co. D.

1. J. W. McCROSKY.
 2. H. B. HICKS.
 3. F. D. HYDE.
 4. G. H. MAGHEE.

CORPORALS.

Co. A.

1. C. M. SKILES.
 2. W. C. DORSEY.
 3. E. M. POLLARD.
 4. BURT BONNELL.

19 Privates.

Co. C.

1. C. D. CHANDLER.
 2. H. CLASON.
 3. G. L. TAIT.
 4. L. E. TROYER.

16 Privates.

Co. B.

1. D. W. BUSH.
 2. H. A. SENTER.
 3. T. BRUGGER.
 4. B. C. YATES.

16 Privates.

Co. D.

1. F. SEYBOLT.
 2. J. A. BARKLEY.
 3. M. M. MAGHEE.
 4. J. B. WHITE.

16 Privates.

COLOR GUARD.

1. SERGEANT C. C. FLETCHER.
2. CORPORAL C. D. CHANDLER.
3. CORPORAL J. A. BARKLEY.
4. CORPORAL T. BRUGGER.

MARKERS.

1. R. E. DINGES.
2. F. GUND.

ARTILLERY.

UNIVERSITY BATTERY.

1ST LIEUT. T. W. GRIFFITH, 18th U. S. Infantry, COMMANDING.

Detachment "B."

SERGEANT G. P. THURBER,
CHIEF OF SECTION.
H. A. SENTER,
GUNNER.

Detachment "C."

SERGEANT E. P. BROWN,
CHIEF OF SECTION.
W. T. BROWN,
GUNNER.

CANNONEERS.

J. B. BECHER.
T. BRUGGER.
G. L. CUSHMAN.
J. C. GRAHAM.
W. M. JOHNSTON.
H. J. PODLESAK.
G. L. SHELDON.
R. S. BULLA.

R. E. DINGES.
E. FARMER.
C. A. HELVIE.
J. H. JOHNSTON.
H. LAMASTER.
H. E. NELSON.
H. G. WHITMORE.

Detachment "D."

SERGEANT F. D. HYDE,
CHIEF OF SECTION.

J. W. McCROSKY,
GUNNER.

CANNONEERS.

L. W. EDWARDS.
C. B. GOODELL.
R. H. JOHNSON.
F. J. LARSON.
G. H. MAGHEE.

M. M. MAGHEE.
W. A. RICHMOND.
F. F. TUCKER.
G. H. WHALEY.
T. E. WING.

THE AGRICULTURAL EXPERIMENT STATION OF NEBRASKA.

(Established in connection with the Industrial College, by an act of Congress, approved March 2, 1887.)

GOVERNING BOARD.

THE REGENTS OF THE UNIVERSITY.

EXECUTIVE COMMITTEE.

CHARLES H. GERE. LEAVITT BURNHAM. LEWIS E HICKS.

VISITING COMMITTEE.

R. W. FURNAS, Brownville, } Agricultural Society.
W. R. ROBERTSON, Madison, }
G. J. CARPENTER, Fairbury, Horticultural Society.

STATION OFFICERS.

LEWIS E. HICKS, *Director.*
J. STUART DALES, *Treasurer.*

WORKING STAFF.

JARED G. SMITH, B. SC., *Assistant Agriculturist.*
HUDSON H. NICHOLSON, M. A., *Chemist.*
RACHEL LLOYD, PH. D., *Assistant Chemist.*
DEWITT B. BRACE, PH. D., *Physicist.*
HAROLD N. ALLEN, B. SC., *Assistant Physicist.*
LEWIS E. HICKS, PH. D., *Geologist.*
LAWRENCE BRUNER, *Entomologist.*
CHARLES E. BESSEY, PH. D., *Botanist.*
S. W. PERIN, *Foreman of the Farm.*

SUMMARY OF STUDENTS.

GRADUATES	15
UNDERGRADUATES.	
ACADEMIC COLLEGE—	
Seniors.....	20
Juniors.....	23
Sophomores.....	21
Freshmen.....	46
Specials.....	49—159
INDUSTRIAL COLLEGE—	
Seniors.....	12
Juniors.....	9
Sophomores.....	19
Freshmen.....	25
Specials.....	11—76
LATIN SCHOOL —	
Second Year.....	40
First Year.....	83
Specials.....	15—138
SCHOOL OF THE FINE ARTS —	
Art Students	76
Music Students.....	90—166
Aggregate enrollment.....	554
Repeated.....	80
Total of unreported names.....	474

THE COLLEGES.

The University of Nebraska consists at present of two undergraduate Departments or Colleges, as follows :

The ACADEMIC COLLEGE (*"The College of Literature, Science and the Arts"*).

The INDUSTRIAL COLLEGE.

There is in operation, in connection with these Colleges, a *Latin School*. Preparatory instruction is here provided for students denied the opportunity in the schools of their own neighborhood.

An inchoate *School of Graduate Instruction* is open to graduates of these and other colleges.

There is also a *School of Art and Music*, in which, pending the opening of the COLLEGE OF THE FINE ARTS, instruction is given in Instrumental and Vocal Music, and in Drawing, Painting, and the History of Art.

REQUIREMENTS FOR ADMISSION.

ADMISSION TO THE FRESHMAN CLASS.

All candidates for admission to the Freshman Class in any Course (except those holding certificates of graduation from the High Schools named below) will be examined in the following subjects:

English.—English grammar, with Bain's "Higher English Grammar" as a basis. Candidates must be thoroughly proficient in spelling, punctuation, and capitalization. Each candidate will also be required to write an essay, not to exceed 500 words, on any one of the following subjects that the examiner may select: 1. The Story of Viola ("Twelfth Night"); 2. The Character of Primrose ("Vicar of Wakefield"); 3. The Story of Mark Tapley ("Martin Chuzzlewit"); 4. The Circumstances that gave rise to Magna Charta.

Geography.

Mathematics.—Arithmetic; Higher Algebra to Undetermined Coefficients; Plane and Rectilinear Solid Geometry.

History.—Barnes's General History, or Swinton's Outlines.

Latin.—Allen and Greenough's or Harkness's Grammar; Cæsar, three books; Cicero, five orations; Allen's Latin Composition, thirty lessons. (The Roman pronunciation should be used exclusively.)

Applicants for admission to the CLASSICAL COURSE will be further examined in the following text-books:

Greek.—Goodwin's Greek Grammar; White's Lessons to Syntax; Xenophon's Anabasis, through four chapters.

But applicants for admission to the SCIENTIFIC, LITERARY, ENGINEERING, AND AGRICULTURAL COURSES, will prepare for examination in the following subjects, *instead of Greek*:

Chemistry.—Such knowledge of Elementary Chemistry as may be obtained by a year's study of Avery's, Shepard's, or Remsen's Elements of Chemistry with laboratory practice.

Physics.—Such knowledge of Elementary Physics as may be acquired by thorough study of Gage's Elements of Physics, or an equivalent.

Botany.—General Botany, including the principal characters of the great divisions of the vegetable kingdom, the structure, analysis and identification of flowering plants (Gray's Lessons and Manual), and collection of one hundred plants in herbarium.

ENTRANCE EXAMINATIONS.

The first examination of candidates for the Freshman Class, or for advanced standing, will be held on Thursday and Friday after Commencement, June 12 and 13, 1890, beginning at 9 A. M. A second examination will be held on Tuesday and Wednesday, September 16 and 17, at the opening of the Fall term. Attendance is required in all cases at the opening of the examination.

ADMISSION BY DIPLOMA.

Candidates holding diplomas from the High Schools of *Alma, Ashland, Auburn, Beatrice, Fremont, Grand Island, Kearney, Lincoln, Nebraska City, Plattsmouth, Tecumseh, and Ulysses*, will be admitted to the Freshman Class without examination.

ADVANCED STANDING.

All candidates will be examined, in addition to the preparatory subjects enumerated above, in the studies already pursued by the class which they wish to enter.

ADMISSION TO THE LATIN SCHOOL.

Candidates for admission to the First Year Class of the Latin School will be examined in *English Grammar, Arithmetic* (fractions, denominate numbers, percentage and its applications, analysis, and proportion), *Geography*, and *History of the United States*.

Further statements as to examination and entrance to the Second Year Class are given under the head of the "Latin School" upon a subsequent page.

SPECIAL STUDENTS.

Persons over twenty-one years of age, not regularly admitted to the Freshman Class, are sometimes allowed by consent of the Faculty to select all their studies from the College classes. Such students receive no degree, but are entitled to a certificate showing the studies pursued with credit.

Candidates for a degree at the discretion of the Faculty may take less than the prescribed number of hours each term, and thus extend their course over a greater number of years.

UNDERGRADUATE INSTRUCTION.

THE ACADEMIC COLLEGE.

(College of Literature, Science, and the Arts.)

In this College are offered TWO COURSES OF STUDY, designated as the CLASSICAL and the LITERARY, leading to the degrees of B. A. and B. L., respectively.

CLASSICAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

Latin.—Vergil: Æneid, books I. and II. Prosody. (Four hours per week.)

Greek.—Xenophon: Anabasis, books I. and II. Syntax. Greek Prose Composition. (Five hours.)

Mathematics I.—Spherical Geometry and Trigonometry. Exercises in original demonstration. (Five hours.)

Rhetoric.—Lectures. Practical exercises in Criticism and Composition. (Two hours.)

SECOND TERM.

Latin.—Vergil: Æneid, book VI; and six Eclogues. Prosody. Review of Syntax of Nouns by Grammar and Analytical Charts. (Five hours.)

Greek.—Xenophon: Memorabilia. Syntax. Greek Composition. (Four hours.)

Mathematics II.—Trigonometry, and Higher Algebra. Original demonstrations. (Five hours.)

Rhetoric.—Lectures. Practical exercises in Criticism and Composition, continued. Themes and Studies in Style. (Two hours.)

THIRD TERM.

Latin.—Cicero: De Senectute. Review of the Syntax of Verbs by Grammar and Analytical Charts. (Four hours.)

Greek.—Lysias: one Oration. Syntax. Greek Composition finished. (Five hours.)

Mathematics III.—Conic Sections. Original demonstrations. (Five hours.)

Rhetoric.—Argumentative Themes; Studies in Oratory. (Two hours.)

SOPHOMORE YEAR.

FIRST TERM.

Latin.—Livy: book XXI., with Quintus Curtius at sight. (Six hours.)

Greek.—Homer: Iliad, books I. and VI. (Five hours.)

German.—Joyne's Grammar and Reading. (Five hours.)

Rhetoric.—One Essay on an Assigned Subject.

SECOND TERM.

Latin.—Livy: book XXII., with Quintus Curtius at sight, continued through one book. (Five hours.)

Greek.—Thucydides; book VII. (Six hours.)

German.—Joyne's Grammar and Reading. (Five hours.)

Rhetoric.—One Essay on an Assigned Subject.

THIRD TERM.

Latin.—Horace: Selected Odes, with Prosody (Six hours.)

Greek.—Plato: Apology and Crito. (Five hours.)

German.—Joyne's Grammar and Reading of Classical Authors. (Five hours.)

Rhetoric.—One Essay on an Assigned Subject.

JUNIOR YEAR.

FIRST TERM.

Latin.—Horace: Selected Satires and Epistles; Ars Poetica. (Three hours.)

Greek.—Sophocles: Antigone. Studies and Essays on the Greek drama. (Three hours.)

German.—Reading of Select Authors. (Four hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Electives.—(Five hours.)

SECOND TERM.

Latin.—Plautus: Captivi; Terence: Adelphi. (Three hours.)

Greek.—Demosthenes; De Corona; Studies and Essays on the Greek Orators. (Three hours.)

German.—Reading of Select Authors. (Four hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Electives.—(Five hours.)

THIRD TERM.

Latin.—Tacitus: Germania and Agricola. (Three hours.)

Greek.—Plato: Phædo. (Three hours.)

German.—Reading of Classical Authors. (Four hours.)

Rhetoric.—One Oration, to be read before the class, with class criticism.

Electives.—(Five hours.)

SENIOR YEAR.

FIRST TERM.

Political Economy.—General study of principles with some text, as Ely, Andrews or Walker; lectures and reports by students on assigned topics. (Three hours.)

Psychology.—General study of the subject, following Ladd, Wundt, and Bain; special reading in periodicals and monographs. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Ten hours.)

SECOND TERM.

Political Economy.—A more thorough study of selected topics, with special reference to practical applications. (Three hours.)

Formal Logic, or Psychology.—(Three hours.)

Rhetoric.—One Oration.

Electives.—(Ten hours.)

THIRD TERM.

Political Science.—Students may take work in Taxation, Constitutional Law, International Law, or Charities and Corrections. (Three hours.)

Ethics.—Martineau's Ethical Theory; Sidgwick's History, and Methods of Ethics; special readings in Stephen, Fowler, Green, Paulsen, Spencer, and other writers. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Ten hours.)

LITERARY COURSE.

FRESHMAN YEAR.

FIRST TERM.

Mathematics I.—Spherical Geometry and Trigonometry. Original demonstrations. (Five hours.)

Rhetoric.—Lectures. Practical Exercises in Criticism and Composition. (Two hours.)

German.—Joyne's Grammar and Reading. (Five hours.)

History.—Ancient History: Cox's Greeks and Persians and Athenian Empire. Lectures and blackboard analyses on the Constitutional History of Athens and Sparta. (Four hours.)

SECOND TERM.

Mathematics II.—Trigonometry and Higher Algebra. (Five hours.)

Rhetoric.—Lectures. Practical Exercises in Criticism and Composition, continued. Themes and Studies in Style. (Two hours.)

German.—Joyne's Grammar and Reading. (Five hours.)

History.—Ancient History: Ihne's Early Rome; Smith's Rome and Carthage; special analysis of Roman Institutions; the Comitia, Magistracies, Collegia, Ranks, Classes, etc. (Four hours.)

THIRD TERM.

Mathematics III.—Conic Sections. Original demonstrations. (Five hours.)

Rhetoric.—Argumentative Themes; Studies in Oratory. (Two hours.)

German.—Joyne's Grammar and Reading of Select Authors. (Five hours.)

History.—Ancient History: Beesley's The Gracchi, Marius, and Sulla; Merivale's Triumvirates. Blackboard exercises on political institutions, continued. Theme or Lecture by each student. (Four hours.)

SOPHOMORE YEAR.

FIRST TERM.

German.—Reading of Select Authors. (Four hours.)

French.—Edgren's Grammar: French Readings. (Four hours.)

Anglo-Saxon.—Siever's Grammar, and Sweet's Reader; Cædmon's Exodus; Beowulf begun. (Four hours.)

Rhetoric.—One Essay on an Assigned Subject.

History.—Capes' Early Empire and Age of the Antonines; Arnold's Roman Provincial Administration. Further study of the Roman Constitution, with particular attention to the Civil and Military Organization under Diocletian and Constantine. One Theme. (Four hours.)

SECOND TERM.

German.—Reading of Classical Authors. (Four hours.)

French.—Edgren's Grammar: French Readings. (Four hours.)

Anglo-Saxon and Early English.—Beowulf, 2,200 lines. Mätzner's Altenglische Sprachproben. (Four hours.)

Rhetoric.—One Essay on an Assigned Subject.

History.—The Middle Ages: Studies in Hodgkin's Italy and Her Invaders, Church's Beginning of the Middle Ages, Gibbon's Decline and Fall, Hallam's Middle Ages, Cox's Crusades, covering the period from Constantine to the Crusades. Special topics: The Barbarian Invasion; Charles the Great; Theory of the Holy Roman Empire; Rise of the Papal Power. (Four hours.)

THIRD TERM.

German.—Reading of Select Authors. (Four hours.)

French.—Edgren's Grammar. Reading of Select Authors. (Four hours.)

Early English.—Mätzner's Altenglische Sprachproben; Lounsbury's History of the English Language; special Grammatical Analyses of Early English Authors. (Four hours)

Rhetoric.—One Essay on an Assigned Subject.

History.—Middle Ages, continued. Special topics: Philip the Fair; The Hundred Years' War; Louis XI. and Charles the Bold; Analysis of Feudal Institutions. References: Guizot's History of Civilization; Kitchin's, Guizot's, Martin's, and Michelet's histories of France; Hallam's Middle Ages; Secretan's Feudalite; Warburton's Edward III. One Theme for the last two terms of the year. (Four hours.)

JUNIOR YEAR.

FIRST TERM.

French.—Reading of Select Authors. (Three hours.)

English Literature.—General survey of the subject: English social and literary history from Piers Plowman to Shakespeare, on the basis

of Morley's First Sketch; the influence of Italy and the Universities; the beginnings of Popular Literature; special study of Chaucer, Spenser, and Shakespeare. (Three hours.)

History.—Seebohm's Era of the Protestant Revolution, and Gardiner's Thirty Years' War. Special library work on topics connected with these eras. One Theme or lecture from each student on some topic assigned. (Three hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Electives.—Six hours.

SECOND TERM.

French.—Reading of Select Authors. (Three hours.)

English Literature.—General survey, continued: Readings in the Dramatists from Shakespeare to Shirley; the Classical Movement from Cowley to Johnson; Growth of Popular Literature; special study of Milton, Pope, Thomson, and the Ballads. (Three hours.)

History.—Gardiner's Puritan Revolution. Special Topics: Petition of Right; Cromwell, Laud, and Strafford; Religious Legislation in the Reigns of Charles II. and James II.; Revolution of 1688. One Theme or Lecture during this (or following) Term. (Three hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Electives.—(Six hours.)

THIRD TERM.

Italian.—Grandgent's Italian Grammar; Reading. (Three hours.)

English Literature.—General survey, continued to Living writers: Study of the Romantic, Nature, and Life Schools; Triumph of the People's Literature; Progress of English Prose; Lectures on American Literature; special study of Keats, Shelley, Byron, Wordsworth, and Tennyson. (Three hours.)

History.—Morris' Age of Anne: Library work with special reference to moral and social conditions; the political bearings of the literature, the Sacheverell trial, and the union of England and Scotland. (Three hours.)

Rhetoric.—One Oration, to be read before the class, with class criticism.

Electives.—(Six hours.)

SENIOR YEAR.

FIRST TERM.

Political Economy.—General study of principles with some text, as Ely, Andrews, or Walker; lectures and reports by students on assigned topics. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Thirteen hours.)

Thesis.—Out of the above thirteen elective hours, three may be given, if the student so elect, to the investigation of some subject which shall be thoroughly and elaborately discussed in a graduation thesis.

SECOND TERM.

Political Economy.—A more thorough study of selected topics, with special reference to practical applications. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Thirteen hours.)

Thesis.—As in First Term.

THIRD TERM.

Political Science.—Students may take work in Taxation, Constitutional Law, International Law, or Charities and Corrections. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Thirteen hours.)

Thesis.—As in First and Second Terms.

ELECTIVE COURSE IN PEDAGOGICS.

To accommodate students desiring to devote special attention to Pedagogy, a modification of the regular courses is proposed as given below. These studies may be substituted for those of the Junior and Senior years, without affecting the degree. Graduates who complete this course will receive the certificate of the Department of Pedagogy in addition to the regular diploma.

JUNIOR YEAR.

General Psychology.—First and second terms, three hours.

Ethics.—Third term, three hours.

Political History of the Nineteenth Century.—First term, three hours.

Constitutional Law.—Third term, three hours.

Logic.—Second term, three hours.

Electives.—During year, ten hours.

SENIOR YEAR.

Experimental Psychology.—During year, two hours.

History, Theories, and Methods of Education.—During year, two hours.

Political Economy.—First and Second terms, three hours.

Sociology or Anthropology.—Third term, three hours.

Electives.—During year, nine hours.

THE INDUSTRIAL COLLEGE.

The purpose and scope of this College are defined by the Act of Congress providing for its endowment, which declares that in it "the leading object shall be, without excluding other Scientific and Classical studies, and including Military Tactics, to teach such branches of learning as are related to Agriculture and the Mechanic Arts, in such manner as the Legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Accordingly great prominence is given to the natural and physical sciences in the Scientific Course, and to their applications in the special elective courses and the Course in Civil Engineering. Two lines of Agricultural instruction (chemical and biological), and one in Applied Electricity, are offered.

The degrees conferred in this College are Bachelor of Science (B. Sc.), Bachelor of Agriculture (B. Ag.), and Bachelor of Civil Engineering (B. C. E.)

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

- Mathematics* I. II. III.—(Five hours.)
German I.—Grammar and Reader.—(Five hours.)
Rhetoric I.—Exercises, Theme, etc.—(Two hours.)
Chemistry I.—Metallic Elements.—(Two hours.)
Physics I.—(Two hours.)

SOPHOMORE YEAR.

- French* III.—Grammar and Reader.—(Four hours.)
Rhetoric II.—Advanced Course.—(Two hours.)
German II.—Readings from Authors.—(Four hours.)
Chemistry II. III.—(Three hours.)
Physics II.—(Two hours.)

JUNIOR YEAR.

- Geology* I. II. III.—(Three hours.)
Zoology I. II. III.—(Four hours.)
Botany I. II. III.—(Two hours.)
French VI.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(Two essays and one oration.)
Electives.—(Two hours.)

SENIOR YEAR.

- English Literature* IV.—(Three hours.)
Political Science I. III. IV.—(Three hours); or
Philosophy I. II. III.—(Three hours.)
Geology VI. VII. VIII.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(One Oration each term.)
Electives.—(Six hours.)

ELECTIVE COURSES IN SCIENCES.

In order to accommodate students desiring to give especial attention to particular subjects, the following elective courses are offered:

A.—ELECTRICAL COURSE.*

FRESHMAN YEAR.

Identical with the General Course.

SOPHOMORE YEAR.

Analytical Geometry and Calculus.—(Six hours.)

French III.—(Four hours.)

Graphics.—(Two hours.)

Chemistry II. and III.—(Three hours.)

Physics II.—(Two hours.)

Rhetoric.—One Essay each term on an assigned subject.

JUNIOR YEAR.

Mathematical Theory of Electricity and Magnetism.—(Four hours.)

Physics III.—(Three hours.)

Descriptive Geometry.—(Two hours.)

English Literature IV.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—Two Essays and One Oration.

Electives.—(Three hours.)

SENIOR YEAR.

Applied Electricity, VII.—(Five hours.)

Thesis.—(Five hours.)

Political Science, II. III. and IV.—(Three hours); *or*

Philosophy I., II., III.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—One Oration each term.

Electives.—(Three hours.)

* Students entering this course may offer an equivalent in French or German in place of Latin.

B.—CHEMISTRY.

Freshman and Sophomore years, identical with General Course.

JUNIOR YEAR.

Chemistry IV, V, and VI.—(Eight hours.)
English Literature IV.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(Two Essays and One Oration.)
Electives.—(Four hours.)

SENIOR YEAR.

Chemistry VII, and XI.—(Three hours.)
Chemistry XIV, or Thesis.—(Five hours.)
Political Science II, III, IV.—(Three hours); *or*
Philosophy I, II, III.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—One Oration each term.
Electives.—(Four hours.)

C.—AGRICULTURAL CHEMISTRY.

Freshman and Sophomore years, identical with General Course.

JUNIOR YEAR.

Chemistry XII, V, and VI.—(Eight hours.)
English Literature IV.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(Two Essays and One Oration.)
Electives.—(Four hours.)

SENIOR YEAR.

Chemistry VII, and XI.—(Three hours.)
Chemistry XIV, or Thesis.—(Five hours.)
Political Science II, III, IV.—(Three hours); *or*
Philosophy I, II, III.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(One Oration each term.)
Electives.—(Four hours.)

D.—GEOLOGY.

Freshman and Sophomore years, identical with General Course.

JUNIOR YEAR.

Geology I. II. III. IV. V.—(Six hours.)

Zoology I. II. III.—(Four hours.)

Botany.—(Two hours.)

Military Science.—(One hour.)

French.—(Three hours.)

SENIOR YEAR.

Geology VI. VII. VIII. and IX.—(Six hours.)

Political Science II. III. IV.—(Three hours); *or*

Philosophy I. II. III.—(Three hours.)

English Literature IV.—(Three hours.)

Military Science.—(One hour.)

Electives.—(Three hours.)

Students with a biological preparation in the Freshman and Sophomore years may also be admitted to the elective geological work of the Junior and Senior years.

E.—BOTANY.

FRESHMAN YEAR.

Students must take Botany I. II. and III. instead of Physics I. Otherwise as in General Course.

SOPHOMORE YEAR.

Students must take Botany IV. and Zoology I. II. III. instead of Physics II. and Chemistry II. and III. Otherwise as in General Course.

JUNIOR YEAR.

Botany V. VI. VII. or VIII.—(Six hours.)

Geology I. II. III.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—(One Oration each term.)

Electives.—(Six hours.)

SENIOR YEAR.

Botany V. VI. VII. or VIII. (including Thesis).—(Nine hours.)

Rhetoric.—(One Oration each term.)

Military Science.—(One hour.)

Electives.—(Six hours.)

F.—ZOOLOGY.

FRESHMAN YEAR.

Students must take Botany I. II. III. instead of Physics I. Otherwise as in General Course.

SOPHOMORE YEAR.

Students must take Zoology I. II. III. and Physiology, instead of Chemistry and Physics. Otherwise as in General Course.

JUNIOR YEAR.

Zoology IV. V. VI. VII.—(Six hours.)

Geology I. II. III.—(Three hours.)

Military Science.—(One hour.)

English Literature IV.—(Three hours.)

Rhetoric.—(Two Essays and one Oration.)

French IV.—(Three hours.)

SENIOR YEAR.

Zoology VIII. IX. or X.—(including Thesis).—(Nine hours.)

Political Science II. III. IV.—(Three hours); *or*

Philosophy I. II. III.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—(One Oration each term.)

Electives.—(Three hours.)

G.—AGRICULTURAL BIOLOGY.

FRESHMAN YEAR.

Students must take Botany I. II. and III. instead of Physics I. Otherwise as in General Course.

SOPHOMORE YEAR.

Students must take Zoology I. II. III. and Physiology instead of Chemistry and Physics. Otherwise as in General Course.

JUNIOR YEAR.

Embryology.—(Three hours.)

Entomology IV.—(Three hours.)

Geology I. II. III.—(Three hours.)

Military Science.—(One hour.)

English Literature IV.—(Three hours.)

Rhetoric.—(Two Essays and One Oration.)

Electives.—(Three hours.)

SENIOR YEAR.

Animal Anatomy and Physiology.—(Five hours.)

Lectures on Soils, Irrigation, Drainage, Breeding, and Cultivated Plants.
—(Two hours.)

Thesis.—(Two hours.)

Political Science I. II. III.—(Three hours); *or*

Philosophy I. II. III.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—(One Oration each term.)

Electives.—(Three hours.)

H.—PEDAGOGICS.

The elective course in Pedagogics (p. 43) is open to students in the General Scientific Course.

CIVIL ENGINEERING COURSE.

The Freshman year is identical with that of the General Scientific Course.

SOPHOMORE YEAR.

FIRST TERM.

Mathematics IV.—(Six hours.)

Graphics.—Drafting instruments and operations; Plane problems; Elementary Descriptive Geometry; recitations, etc., four hours, with four hours of drawing.

Rhetoric.—(One Essay on an Assigned Subject.)

Modern Language II. or III.—German or French.—(Four hours.)

Physics II.—(Two hours.)

SECOND TERM.

Mathematics IV.—(Six hours.)

Graphics.—Descriptive Geometry; recitations four hours, with four hours of drawing.

Rhetoric.—One Essay on an Assigned Subject.

Modern Language II. or III., as in the first term.

Physics II.—(Two hours.)

THIRD TERM.

Mathematics IV.—(Six hours.)

Graphics.—Shades and Shadows; Linear perspective; Recitations four hours, with four hours of drawing.

Rhetoric.—One Essay on an Assigned Subject.

Modern Language II. or III., as in the first term.

Physics II.—(Two hours.)

JUNIOR YEAR.

FIRST TERM.

Mathematics.—Todhunter's Analytical Statics. (Five hours.)

Surveying.—Johnson's Land Surveying; recitations (two hours); field work with compass and transit; platting surveys and computations (six hours).

History I.—With the Freshman class of the Literary Course. (Four hours.)

Military Science.—(One hour.)

Geology I.—Topographical Geology. (Three hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

SECOND TERM.

Mathematics.—Todhunter's Analytical Statics. (Five hours.)

Stereotomy.—Warren's Stone Cutting; recitations four hours, with four hours of drawing.

History I.—As in the first term.

Military Science.—(One hour.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Electives.—(Three hours.)

THIRD TERM.

Mathematics.—Method of Least Squares. (Four hours.)

Surveying.—Higher Surveying and Leveling; field work with Level and Plane-table; recitations three hours, with six hours of field work.

History I.—As in the first term.

Military Science.—(One hour.)

Rhetoric.—One Oration, to be read before the class, with class criticism.

Electives.—(Three hours.)

SENIOR YEAR.

FIRST TERM.

Field Engineering.—Location of Line of Railroad, with calculations of Excavations and Embankments; Henck's Field Book for Railroad Engineers; Searle's Railroad Spiral. Until November, twenty hours.

Civil Engineering.—(From November.) Strength of Materials; recitations (four hours), Laboratory work (three hours), Bridges and Roofs (four hours).

Thesis.—(Five hours.)

Rhetoric.—One Oration.

Electives.—(Three hours.)

SECOND AND THIRD TERMS.

Civil Engineering.—Strength of Materials (four hours), Bridges and Roofs (four hours), Laboratory work (three hours).

Thesis.—(Five hours.)

Rhetoric.—One Oration each term.

Electives.—(Three hours.)

ELEMENTARY AGRICULTURAL COURSE.

A two-years' course in Elementary Agriculture is offered to those who are not able to take the full course. The requirements for admission to the studies of this course are the same as for admission to the Latin School, viz.:

English Grammar, Arithmetic (fractions, denominate numbers, percentage and its applications, analysis and proportion), *Geography, History of the United States.*

The arrangement of studies for the two years is as follows:

FIRST YEAR.

Mathematics.—Elementary Algebra. (Five hours.)

Elementary Botany.—Lectures and Field work. (Two hours.)

Zoology.—General and Comparative. (Four hours.)

Agriculture.—Lectures on Elementary Topics.

English.—Logical and philological study of the English language; Lectures on Grammatical Structure, with practical exercises for the application of principles deduced.

SECOND YEAR.

Botany and Horticulture.—Fertilization, Propagation, etc. (Two hours.)

Animal Anatomy and Physiology.—(Five hours.)

Entomology.—Structure and Development of Insects. (Three hours.)

Agriculture.—Lectures on Soils, Drainage, and Cultivated Plants. (Two hours.)

Chemistry.—Study of non-metallic elements, with five hours of laboratory practice per week for one year.

Physics.—Stewart's Lessons. (Two hours.)

DEPARTMENTS OF INSTRUCTION.

In each course, up to the end of the Sophomore year, the studies are prescribed; but in the Junior and the Senior year they are largely elective. This arrangement is designed to enable those students who may desire it, to concentrate their work upon special lines, or subjects. In addition to the elective studies which appear below, the required subjects of other Courses in either college are open to each student. But it is expected that in general all who have mastered the required work of the first two years will avail themselves of the special advanced studies of some Department. The following rules regarding the choice of electives are in force:

1. No study can be elected unless the professor in charge deems the student qualified to pursue it.
2. No elective shall be changed after two weeks of the term have passed.
3. No elective need be taught unless at least three students elect it.

The special subjects at present offered as electives, and the order in which they should be pursued, together with the required studies which lead up to them, are shown under the following summary of the Departments. Elective studies are distinguished by an asterisk:

PHILOSOPHY.

- I. General Psychology: Nervous System, Sense Organs, Psycho-physical Methods and Results, Instincts, Consciousness, Attention, Association, Memory, Emotions, Will. *References*: Ladd, Wundt, Bain, Sully, Ribot, Periodicals.—*Junior and Senior Year*: first and second terms, three hours.
- II. Logic: (a) Jevon's Elements, and Fowler's Inductive Logic. (b) Mills' Logic, Jevon's Principles of Science, and Wundt's Logik.—*Junior or Senior Year*: second and third terms, three hours.
- III. Ethics: General study of the principal theories. *References*: Martineau, Sidgwick, Stephen, Wundt, Spencer, Green, Paulsen, Fowler.—*Junior or Senior Year*: third term, three hours.
- IV. *History of Philosophy: Outline study of the development and relations of systems from Thales to Spencer; Lectures and Special Readings in Plato, Aristotle, Augustine, Thomas Aquinas, Descartes, Spinoza, Locke, Leibnitz, Kant; also in

the General Histories of Philosophy by Zeller, Ueberweg, Erdmann and Fischer.—During the year, three hours.

- V. *Special Studies: In Idealism (Plato); first term. In Criticism (Kant); second term. In Evolution (Spencer); third term. *Senior Year*: two hours.
- VI. *Experimental Psychology: Lectures and Laboratory work, during the *Senior Year*, two hours. Additional hours may be devoted to original research.
- VII. *History of Education: *Senior Year*: first term, two hours.
- VIII. *Pedagogical Psychology: *Senior Year*: second and third terms, two hours.
- IX. *Æsthetics: First term, three hours.

*Courses V., VII., VIII. and IX., will not be given in 1890-91.

GREEK LANGUAGE AND LITERATURE.

- I. Xenophon: Anabasis; Greek Prose.—*Freshman Year*: first term, five hours. Associate Professor LEES.
- II. Xenophon: Memorabilia; Greek Prose.—*Freshman Year*: second term, four hours. Professor McMILLAN.
- III. Lysias: Select Orations; Greek Prose.—*Freshman Year*: third term, five hours. Professor McMILLAN.
- IV. Homer: Iliad.—*Sophomore Year*: first term, five hours. Professor McMILLAN.
- V. Thucydides, Bk. VII.—*Sophomore Year*: second term, six hours. Professor McMILLAN.
- VI. Plato and Crito.—*Sophomore Year*: third term, five hours. Professor McMILLAN.
- VII. Sophocles: Antigone; Study of the Drama.—*Junior Year*: first term, three hours, M., W., F. Professor McMILLAN.
- VIII. Demosthenes: Select orations; Greek antiquities.—*Junior Year*: second term, three hours, M., W., F. Professor McMILLAN.
- IX. Plato: Phædo.—*Junior Year*: third term, three hours. Professor McMILLAN.
- X. *Lyric Poetry, Lyric Anthology.—*Junior Year*: second term, two hours, T., Th. Professor McMILLAN.
- XI. *Euripides: A critical study of one play and some of the other plays read privately and discussed publicly by different members of the class. Lectures on the Greek Tragic Writers and

- the Attic Theatre.—*Junior or Senior Year*: first term, three hours, M., W., F. Associate Professor LEES.
- XII. *Greek Oratory: Critical study of one orator, reading and discussion of selected portions of other orators. Lectures. Comparison of Greek with English standards of Oratory.—*Junior or Senior Year*: second and third terms, three hours, M., W., F. Associate Professor LEES.
- XIII. *Aristophanes with lectures on the Scenic and Private Antiquities. *Junior or Senior Year*: first term, two hours, T. Th. Professor McMILLAN.
- XIV. *Plato. (Phædo and selections from the Republic.) Aristotle (Ethics, Books I. IV.) In this course the attention will be directed mainly to the subject-matter of the author read.—*Senior Year*: second and third terms, two hours, T., Th. Professor McMILLAN.
- XV. *Greek Prose Composition: (Second Course.) Sidgwick's Introduction (parts I. and II.); Goodwin's Moods and Tenses. This course is especially designed for teachers.—*Junior or Senior Year*: first term, two hours, M., W., (1891-92). Professor McMILLAN.
- XVI. *History of Greek Literature. Lectures and recitations, with direction of students' private reading.—*Senior Year*: first term, three hours, M., W., F. Professor McMILLAN.
- XVII. *Greek Grammar: An elementary course in the comparative Grammar of Greek and Latin. Lectures by the instructor; papers and discussions by members of the class.—*Senior Year*: second and third terms, two hours, T., Th. Associate Professor LEES.
- XVIII. *Modern Greek: Lectures on the changes of grammatical forms in Modern Greek as compared with ancient Classical Greek; followed by a course of reading Modern Greek.—*Senior Year*: first term, two hours, T., Th., (1891-92). Associate Professor LEES.

LATIN LANGUAGE AND LITERATURE.

- I. Vergil: *Æneid*, and Eclogues; Latin Syntax and Prosody.—*Freshman Year*: first term, five hours, second term, five hours. Professor BARBER.
- II. Cicero: *De Senectute*; Latin Grammar.—*Freshman Year*: third term, four hours. Professor BARBER.

- III. Livy: book XXI, XXII.; Quintus Curtius at Sight.—*Sophomore Year*: first term six hours, second term five hours. Professor BARBER.
- IV. Horace: Selected Odes; Latin Prosody.—*Freshman Year*: third term, six hours. Professor BARBER.
- V. *Cicero: Epistolæ.—*Junior Year*: first term, two hours, T., Th. Professor BARBER.
- VI. Horace: Satires and Epistles.—*Junior Year*: first term, three hours, M., W., F. Professor BARBER.
- VII. *Tacitus: Annals.—*Junior Year*: second term, two hours, T., Th. Professor BARBER.
- VIII. Plautus: Captivi; Terence: Adelphi; Prosody.—*Junior Year*: second term, three hours, M., W., F. Professor BARBER.
- IX. *Juvenal, or Catullus.—*Junior Year*: second term, two hours, T., Th. Professor BARBER.
- X. *Quintilian: Lectures in Roman Literature.—*Junior Year*: third term, two hours, T., Th. Professor BARBER.
- XI. Tacitus: Germania and Agricola.—*Junior Year*: third term, three hours, M. W., F. Professor BARBER.
- XII. *Suetonius, or Seneca.—*Junior Year*: first term, two hours, T., Th. Professor BARBER.
- XIII. *Pliny's Letters; Roman Law.—*Senior Year*: second term, two hours, T., Th. Professor BARBER.
- XIV. *Lectures on Antiquities.—*Senior Year*: third term, one hour, Th. Professor BARBER.
- XV. *Latin Composition and Conversation. Throughout the year, one hour. Professor BARBER.
- XVI. *Latin Grammar; an Elementary Course in the Comparative Grammar of the Latin and Greek Languages.—*Senior Year*: second and third terms, two hours, T., Th. Associate Professor LEES.
- XVII. *Roman Inscriptions; Study of Select Inscriptions, second term, one hour. Professor BARBER.

MATHEMATICS.

- I. Spherical Geometry and Trigonometry.—*Freshman Year*: first term, five hours. Professor HITCHCOCK and Instructor HODGMAN.
- II. Trigonometry with higher Algebra.—*Freshman Year*: second

term, five hours. Professor HITCHCOCK and Instructor HODGMAN.

- III. Conic Sections and Analytical Geometry.—*Freshman Year*: third term, five hours. Professor HITCHCOCK and Instructor HODGMAN.
- IV. Analytical Geometry and Calculus.—*Sophomore Year*: Throughout the year, six hours. Professor HITCHCOCK.

CHEMISTRY.

- I. Study of the metallic elements and their more common compounds, with five hours of laboratory practice per week for one year, two hours, T., Th., 11-30. Professor LLOYD.
- II. Continuation of course I. with special study of characteristic reactions, with seven hours of laboratory practice per week for one year, two hours, M., W., 9-30. Professor LLOYD.
- III. The elementary principles of Chemical Philosophy, one lecture per week throughout the year, one hour, Friday, 9-30. Professor NICHOLSON. (Must be preceded by I.)
- IV. Gravimetric and volumetric methods of quantitative analysis with fifteen hours of laboratory practice per week for one year, five hours, M., W., 11-30. Professor LLOYD. (Must be preceded by I. and II.)
- V. Lectures on the History of Chemistry, with special reference to the work of Eminent Chemists, one hour per week throughout the year, Friday, 11-30. Professor LLOYD.
- VI. Theoretical Chemistry, two lectures per week throughout the year, two hours, M., W., 9-30. Professor NICHOLSON. (Must be preceded by I. II. and III.)
- VII. Organic Chemistry; two lectures with two hours of laboratory practice per week for one year, two hours, T., Th., 9-30. Professor LLOYD. (Must be preceded by I. II. and IV. or XII.)
- VIII. Photography: With special reference to the Chemical Principles involved. One term, two hours. Professor NICHOLSON and Laboratory Assistant. (Must be preceded by I. and II.)
- IX. Assaying: Fire assays of ores of gold, silver, lead, etc., one term two hours. Mr. FULMER. (Must be preceded by I. and II.)
- X. Proximate Quantitative Analysis and Toxicology, including Urinalysis, one term, two hours. Professor NICHOLSON and Mr. FULMER. (Must be preceded by I. and II.)

- XI. Reading of current chemical literature and reports thereon, one hour. Professor NICHOLSON. (Must be preceded by I. II. and IV. or V.)
- XII. Method of Analysis, gravimetric and volumetric, adapted to the investigations of agricultural problems, with fifteen hours of laboratory practice per week for one year, five hours, 11-30. Professor NICHOLSON. (Must be preceded by I. and II. Required of Agricultural specials.)
- XIII. Thermo-Chemistry: Two lectures with six hours of laboratory practice per week for one year, two hours. Professor NICHOLSON. (Must be preceded by I. and II.)
(This course will be given in 1890-91.)
- XIV. Investigation of important chemical problems. (Five hours.) Professors NICHOLSON and LLOYD. Must be preceded by I. II. III. (IV. or XII.) VI. VII. and XI.

PHYSICS.

Professor BRACE, Adjunct Professor ALLEN.

- I. Experimental Physics: Twice weekly.—*Freshman Year*: Course I. will consist of Experimental Lectures and Recitations on Mechanics, Sound and Heat, supplemented with exercises in the Laboratory. M., W., 11-30 and 2 to 5.
- II. Experimental Physics: Twice weekly.—*Sophomore Year*: Course II. is a continuation of course I. and includes Light, Electricity and Magnetism. Stewart's lessons in Elementary Physics or an equivalent is required for admission to these Courses. T., Th., 11-30 and 2 to 5.
- III. General Astronomy: Four times weekly.—*Spring Term*: Course III. includes the major portion of Young's General Astronomy and exercises in Practical Astronomy.
- IV. Physical Laboratory: Six hours weekly.—*Junior Year*: Course IV. will cover special problems involving exact measurements, and is supplemented by readings on the problems assigned.
- V. *Mechanics and Sound: Advanced Laboratory Course: Six hours weekly. Course V. comprises the comparison and determination of the standards of length, mass and time; and the measurement of the more important constants in the dynamics of solids and fluids.
- VI. *Heat: Advanced Laboratory Course: Six hours weekly. Course VI. includes advanced work on special problems in Thermom-

etry, Expansion, Calorimetry, Vapor Density and Tension, Conduction, Radiation and the Applications of Thermodynamics. Special attention may be given to problems relating to Meteorology.

- VII. *Light: Advanced Laboratory Course: Six hours weekly. Course VII. will cover special studies and measurements in Photometry, Lenses, Refraction, Interference, Diffraction, Polarization, Spectroscopy and Spectrophotometry.
- VIII. *Electricity: Advanced Laboratory Course: Six hours weekly. Course VIII. will be devoted more especially to the determination and comparison of Electrical Constants and the testing of Electrical Instruments. Special attention may be given to Electro-Optics.
- IX. Applied Electricity: Ten hours weekly.—*Senior Year*: Course IX. includes tests of Dynamo-Electric machinery, Electric Transmission of Power, Electric Lines and Lamps, and experimental studies in the processes of Electro-Metallurgy, Electric Welding and Electric Smelting. Course VIII. should be taken in addition to this Course.
- X. Mathematical Physics: Four times weekly.—*Junior or Senior Year*: Course X. will cover the more general applications of the Calculus to the solution of elementary problems in the Kinematics and Dynamics of solid and fluid bodies, with applications in Sound, Light and Thermodynamics. Reference books:—Minchin's Uniplanar Kinematics, Maxwell's Heat, Briot's Thermodynamique, Lloyd and Airy on Light, and the Vorlesungen über Mathematische Physik by F. Neumann and by Riemann.
- XI. Mathematical Theory of Electricity and Magnetism: Four times weekly.—*Junior or Senior Year*: Course XI. will require a thorough knowledge of the Calculus and its applications and will be taken from Maxwell's Electricity and Magnetism.
- XII. *Advanced Physics: Readings and Discussions: Twice weekly. Course XII. is intended for graduate and advanced students desiring to devote special attention to Theoretical Physics. Students will read from Kirchhoff, Somoff, and Thomson and Tait on Mechanics; Rayleigh, Helmholtz, and Lamb on Sound and Fluid Motion; Briot, Verdet, Clausius, and Fourier on Thermodynamics and Conduction; Parkinson, Kirchhoff, Thomson, Rayleigh, Verdet, Mascart, and Billet on Light; and

Thomson, Helmholtz, Maxwell, and Mascart and Joubert on Electricity and Magnetism.

- XIII. Colloquium: Once weekly. Advanced students will present papers on special topics and be prepared to discuss the subjects assigned.

GEOLOGY AND ALLIED SCIENCES.

Geology.—Professor HICKS.

All courses three hours each week.

- I. Topographic Geology.—*Junior Year*: first term.
- II. Descriptive Mineralogy and Lithology.—*Junior Year*: second term.
- III. Determinative Mineralogy.—*Junior Year*: third term.
- IV. *Crystallography.—*Junior Year*: first term.
- V. *Petrology.—*Junior Year*: second and third terms.
- VI. Dynamical and Structural Geology,—*Senior Year*: first term.
- VII. Historical Geology.—*Senior Year*: second term.
- VIII. Palæontology.—*Senior Year*: third term.
- IX. *Geological Reports, Cartographic Methods, Special Problems, Local Geology, and Advanced Petrology—*Senior Year*: three terms.

Zoology.—Mr. SHIMEK.

- I. General study of the types of Invertebrates.—*Sophomore Year*: first term, four hours.
 - II. General study of types of the Vertebrates.—*Sophomore Year*: second term, four hours.
 - III. Comparative Zoology, with an introduction to systematic Zoology and Field Work.—*Sophomore Year*: third term, four hours.
- Students in the general Scientific Course will take courses I., II. and III. in the Junior year.
- IV. Entomology: Structure and development of Insects, with systematic work.—*Junior Year*: first and third terms, three hours.
 - V. Comparative Histology of Vertebrates:—*Junior Year*: first and second terms, three hours.
 - VI. Conchology, etc. (For those who specialize in Geology this will be modified to form a preparatory course to Palæontology.)—*Junior Year*: second term, three hours.

- VII. Fishes and Reptiles: Structural and systematic work.—*Junior Year*: third term, three hours.
- VIII. Advanced Comparative Anatomy and Histology.
- IX. Systematic study of any selected group of animals.
- X. Special study of local or state faunas: Courses VIII., IX. and X. are four hours each and extend throughout the Senior year.

Seniors who elect Zoology are expected to select one of these three courses, though other equivalents in Zoology may be substituted upon consultation with the Instructor.

BOTANY AND HORTICULTURE.

Botany.—Professor BESSEY.

- I. Vegetable Anatomy, with five hours in the Laboratory; first term, two hours.
- II. Vegetable Physiology, with five hours in the Laboratory; first term, two hours.
- III. Special Anatomy and Physiology of the lower plants (Proto-phytes to Pteridophytes), with five hours in the Laboratory; second and third terms.
- IV. Special Anatomy and Physiology of the Phanerogams, with five hours in the Laboratory; two hours.
- V. *Study of the structure or physiology of one plant. Open to those having completed courses I. to IV.—*Junior and Senior Years.*
- VI. *Comparative Anatomy of particular tissues or organs.—*Junior or Senior Years.*
- VII. *Study of a selected group of plants, including structure and classification.—*Junior and Senior Years.*
- VIII. *Study of the flora of Lincoln, including collections of specimens and preparation of a catalogue.—*Junior and Senior Years.*
- IX. *Advanced work in Vegetable Physiology.—*Junior or Senior Years.*

Horticulture.—Professor BESSEY.

- I. The Fertilization and Propagation of Plants; Hybridization; Diseases of Plants; two hours, with Laboratory work.
- II. Variations of Plants; Improvement of Varieties; Plant Breeding; Diseases of Plants; two hours, with Laboratory work.
- III. Plant Food; Plant Growth; Diseases of Plants. Lectures on the Principles of Landscape Gardening; two hours, with Laboratory work.

MODERN LANGUAGES, SANSKRIT, AND HEBREW.

- I. German: Grammar and Reader, with especial reference to correct pronunciation, mastery of the essentials of grammar, critical and exact translation, and the relations of German to English.—*Freshman Year*: first, second, and third terms, five hours. Mr. FOSSLER.
- II. German: Readings from select authors, both with preparation and at sight, with philologic and literary lectures.—*Sophomore Year*: first, second and third terms, five hours. Mr. FOSSLER.
- III. French: Grammar and Reader, with especial reference to correct pronunciation, mastery of the essentials of grammar, critical and exact translation, and the relations of French to Latin and English.—*Sophomore Year*: first, second, and third terms, four hours, M., T., W., Th. Professor EDGREN.
- IV. *German: Advanced Reading; Lectures on General Philology and Literature.—*Junior and Senior Years*: first, second, and third terms, two hours, T. Th. Mr. FOSSLER.
- V. French: Reading of Classical Authors, with philologic and literary lectures.—*Junior Year*: first and second terms, three hours, M., W., F. Professor EDGREN.
- VI. Italian: Grammar and Reader.—*Junior Year*: third term, three hours, M., W., F. Professor EDGREN.
- VII. *French: Advanced Reading, or Conversation and Composition.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- VIII. *Sanskrit: Grammar and Reader.—*Senior Year*: first second, and third terms, two hours, T., Th. Professor EDGREN.
- IX. *Italian: Select authors.—*Senior Year*: first and second terms, two hours, T., Th. Professor EDGREN.
- X. *Spanish: Grammar and Readings.—*Junior and Senior Years*: second and third terms, two hours, T., Th. Professor EDGREN.
- XI. *Sanskrit: Advanced Course.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- XII. *Hebrew: Elementary Course.—*Senior Year*: first, second, and third terms, two hours. Professor EDGREN.

ENGLISH LITERATURE.

- I. Anglo-Saxon and Early English: Historical Study of English by principal authors from Cædmon to Chaucer.—*Sophomore Year*: first, second, and third terms, four hours, M., T., W., F. Professor SHERMAN.
- II. *Anglo-Saxon and Early English; Special Authors.—*Junior Year*: first term, two hours, T., Th. Professor SHERMAN.
- III. English Literature, Introductory Course: General Survey from Chaucer to the modern period, with special study of chief authors, origin of various schools, and influence of other literatures.—*Junior Year*: first, second, and third terms, three hours, M., W., F. Professor SHERMAN.
- IV. *Shakespeare, First Course: Macbeth; Hamlet; Othello.—*Junior Year*: first, second, and third terms, three hours, M., W., F. Professor SHERMAN.
- V. *Shakespeare, Advanced Course: Julius Cæsar, Antony and Cleopatra; Merchant of Venice, Cymbeline; King Lear, Coriolanus.—*Senior Year*: first, second, and third terms, three hours, T., Th., F. Professor SHERMAN.
- VI. *English Literature, Advanced Course: Critical study of select authors, with reference to the genesis and development of modern Taste and Standards; Lectures on Æsthetics, Resources of Style, and Comparison of Literatures; Practical Criticism of Current Literature.—*Senior Year*: first term, four hours, M., T., W., Th. Professor SHERMAN.
- VII. *American Literature.—*Senior Year*: second and third terms, four hours, M., T., W., Th. Professor SHERMAN.
- VIII. *Browning Course: Men and Women; Select Dramas; Sordello.—*Senior Year*: first, second and third terms, two hours, T., Th. Professor SHERMAN.

RHETORIC AND ORATORY.

- I. Lectures on the Principles of Rhetoric; Practical Exercises in Criticism and Composition; Themes and Studies in Style; Argumentative Themes.—*Freshman Year*: first, second, and third terms, two hours, M., W. Associate Professor HUNT.
- II. Rhetoric and Oratory, Advanced Course: Studies of the best Stylists and Models; Practical Training in the formation of a Correct Style, whether in the essay or in the oration.—*Sophomore Year*: first, second, and third terms, two hours, T., Th. Associate Professor HUNT.

HISTORY.

- I. Ancient History: Epochs of Grecian, Persian, and Roman History; Lectures on Athenian, Spartan, and Roman Constitutions.—*Freshman Year*: first, second, and third terms, four hours, M., T., Th., F. Professor HOWARD.
- II. Ancient History: The Early Empire, from Augustus to Constantine.—*Sophomore Year*: first term, four hours, M., T., W., Th. Professor HOWARD.
- III. The Middle Ages: From Constantine to the Crusades: The Hundred Years' War; Louis XI. and Charles the Bold.—*Sophomore Year*: second and third terms, four hours, M., T., W., Th. Professor HOWARD.
- IV. *History of the Renaissance: Revival of Literature; Dante, Petrarch, Boccaccio; Of Learning: Study of Latin and Greek, Universities, Printing, etc.; Of Art: Michael Angelo, Raphael, Leonardo da Vinci; Politics and Religion: Machiavelli, Savonarola, etc. *References*: Symonds, Pater, Grimm, Villari, Roscoe, Burckhardt, etc.—*Junior or Senior Year*: first term, four hours. Associate Professor CALDWELL.
- V. European History, 1500–1800: Protestant Revolution; Thirty Years' War; Puritan Revolution; Age of Anne.—*Junior Year*: first, second, and third terms, three hours, T., Th., F. Associate Professor CALDWELL.
- VI. *The French Revolution: Ancient Regime; Rousseau, Voltaire, Diderot; National and Legislative Assemblies; Jacobin Conquest, Thermidor, Vendemiaire; Eighteenth Fructidor, Eighteenth Brumaire.—*Junior or Senior Year*: second and third terms, three hours, T, W., F. Professor HOWARD.
- VII. *Ancient Law: A Study of the Genesis of Aryan Institutions in the Works of Maine, Hearn, Coulanges, Laveleye, Morgan, McLennan, Spencer, etc.—*Junior or Senior Year*: first term, three hours, M., W., F. Professor HOWARD.
- VIII. *Growth of the English Constitution: A Comparative Study of the Development of English Institutions from Tacitus to the present time, in the works of Stubbs, Waitz, Kemble, May, Bagehot, Cox, the Collections of Schmid, and Thorpe, the Rolls Series, etc.—*Junior or Senior Year*: first, second, and third terms, five hours. (This course will be given in 1890–91, but not in 1891–92.) Professor HOWARD.

- IX. *Political History of the Nineteenth Century: Reform Bills of 1832, 1867, and 1884; Growth of British India; Corn Laws, and Rise of Free Trade; French Revolutions; Rise of Prussia; German Empire; Growth of Italy; Minor Powers.—*Junior or Senior Year*: first term, three hours, M., W., F. Associate Professor CALDWELL.
- X. *American History: Discoveries, Explorations, Settlements, with related European history; Analysis of forms of Colonial government; Establishment of Local Institutions in the Colonies, North and South; Plans of Union among the Colonies; Independence; Confederation.—*Junior or Senior Year*: first, second, and third terms, five hours. (This course will be given in 1891-92, but not in 1890-91.) Professor HOWARD.
- XI. *American History: Formation of the Constitution, Ratification; Political and Constitutional development to the Civil War; Reconstruction. *Authorities*: Bancroft, Von Holst, Curtis, Elliot, Federalist, Greeley, Wilson, Statesmen Series, Draper, Benton, Poore, the Madison Papers, etc.—*Junior or Senior Year*: first, second, and third terms, five hours. Associate Professor CALDWELL.

ECONOMIC AND POLITICAL SCIENCE.

- I. Political Economy: General study of the subject, with the use of some text as Walker, Ely, or Andrews. Lectures on the Character and History of the Science, and on specific applications of its principles to practical affairs. Topical reports from students required, and exercises assigned in the use of statistics. *Junior or Senior Year*: First and second terms, three hours.
- II. Taxation; text and lectures. *Junior or Senior Year*: Third term, three hours.
- III. *International Law: Outline study of the subject, with text. Third term, three hours.
- IV. *Municipal Administration: Comparative study of the City Governments of the present time, with especial reference to American practice in the administrative branches. First and second terms, two hours.
- V. *Constitutional Law: A study of Cooley's text book, and lectures on the industrial bearings of the complex limitations imposed by our state and local constitutions. Third term, three hours.

- VI. *Private Corporations : First term, a comparative and historical view of corporation law in its economic aspects; second term, Railroad Problems; third term, Special reports on assigned topics involving original research. Whole year, two hours.
- VII. *Charities and Corrections; Lectures, study of reports of the State Boards and of the National Conference of Charities and Corrections, and visits to the charitable and penal institutions of the vicinity; third term, three hours.
- VIII. *Methods of Legislating: A comparative view of the rules and practice of modern legislative assemblies, with special reference to the machinery of congressional and legislative action in the United States; first term, one hour.

(All the above are taught by Associate Professor WARNER. In the other departments Professor KINGSLEY offers a course in Anthropology, and many of the courses in History deal with the historical aspects of economic and industrial problems.)

MILITARY SCIENCE.

- I. Infantry and Artillery Tactics. Professor GRIFFITH.
- II. Elementary Principles of the Art of War. Professor GRIFFITH.
- III. *Field Fortification.—*Junior or Senior Year*: first term, two hours. Professor GRIFFITH.
- IV. *Art and Science of War.—*Junior or Senior Year*: second term, two hours. Professor GRIFFITH.
- V. *Manufacture and Use of Gunpowder; Manufacture of Small Arms, Cannon, Torpedoes, and their Use; Strategy and Tactics, Campaigns etc.; Logistics: Customs of the Service; Lectures.—*Junior or Senior Year*: third term, two hours. Professor GRIFFITH.

CIVIL ENGINEERING.

Professor LITTLE.

- I. Descriptive Geometry; Shades and Shadows: Linear Perspective.—*Sophomore Year*: first, second and third terms, eight hours.
- II. Stereotomy: Stone Cutting.—*Junior Year*: winter term, eight hours.
- III. Surveying: Use of Compass, Plane Table, Transit and Level.—*Junior Year*: first and third terms, nine hours.

- IV. Railroad Engineering: Laying out Curves; Location of Line of Railroad; Setting Slope Stakes; Calculation of Excavation and Embankment; Transition Curves.—*Senior Year*: first term until November, twenty hours.
- V. Materials of Construction.—*Senior Year*: from November through the year, seven hours.
- VI. Bridge and Roof Trusses.—*Senior Year*: from November through the year, four hours.
- VII. Analytical Statics: Equilibrium of Systems of Forces; Friction; Attraction.—*Junior Year*: first and second terms, five hours.
- VIII. Method of Least Squares.—*Junior Year*: third term, four hours.

AGRICULTURE AND BIOLOGY.

- I. Irrigation and Drainage: first term, two hours. Professor HICKS.
- II. History, development and characteristics of the various breeds of Domestic Animals; Stock Breeding; Feeding; second term, two hours. Professor KINGSLEY.
- III. History; Propagation and Varieties of Cultivated Plants; Grass and Forage Plants; third term, two hours. Professor BESSEY.
- IV. Human and Comparative Physiology.—*Sophomore Year*: two hours. Professor KINGSLEY.
- V. Practical Physiology.—*Junior Year*: ten hours of laboratory work. Professor KINGSLEY.
- VI. Comparative Embryology.—*Junior Year*: two hours. Professor KINGSLEY.
- VII. Anatomy and Physiology of the Nervous System. (Preparatory to Psychology.)—*Junior Year*: third term, two hours. Professor KINGSLEY.
- VIII. Anthropology.—*Junior Year*: one hour. Professor KINGSLEY.

SYNOPTICAL VIEW OF THE UNDERGRADUATE
COURSES OF STUDY.

SYNOPTICAL VIEW OF THE UNDERGRADUATE COURSES OF STUDY.

Year.	Term.	ACADEMIC COLLEGE.			INDUSTRIAL COLLEGE.		
		CLASSICAL COURSE.	LITERARY COURSE.	SCIENTIFIC COURSE.	AGRICULTURAL COURSE.	ENGINEERING COURSE.	
Freshman.	1st.	Latin Greek Mathematics Rhetoric	German Mathematics History Rhetoric	German Chemistry Physics Mathematics Rhetoric	German Chemistry Mathematics Rhetoric Botany	German Chemistry Mathematics Rhetoric Physics	
	2d.	Latin Greek Mathematics Rhetoric	German Mathematics History Rhetoric	German Chemistry Physics Mathematics Rhetoric	German Chemistry Mathematics Rhetoric Botany	German Chemistry Mathematics Rhetoric Physics	
	3d.	Latin Greek Mathematics Rhetoric	German Mathematics Rhetoric History	German Chemistry Mathematics Physics Rhetoric	German Chemistry Mathematics Botany Rhetoric	German Chemistry Mathematics Rhetoric Physics	
Sophomore.	1st.	Latin Greek German	German French Anglo-Saxon History	German French Physics Chemistry Rhetoric	German French Physiology Zoology Rhetoric	Mathematics Physics Graphics Modern Languages	
	2d.	Latin Greek German	German French Early English History	German French Physics Rhetoric Chemistry	German French Physiology Zoology Rhetoric	Mathematics Physics Graphics Modern Languages	
	3d.	Latin Greek German	German French Early English History	German French Physics Rhetoric Chemistry	German French Physiology Zoology Rhetoric	Mathematics Physics Graphics Modern Languages	

Year.	ACADEMIC COLLEGE.			INDUSTRIAL COLLEGE.		
	CLASSICAL COURSE.	LITERARY COURSE.	GENERAL SCIENTIFIC COURSE.	AGRICULTURAL COURSE.	ENGINEERING COURSE.	
Junior.	3 3 4 5	3 3 3 6	3 3 4 1	3 3 3 3 3 1	3 3 3 3 3 1	
	3 3 4 5	3 3 3 6	3 3 4 1	3 3 3 3 3 1	3 3 3 3 3 1	
	3 3 4 5	3 3 3 6	3 3 4 1	3 3 3 3 3 1	3 3 3 3 3 1	
Senior.	3 3 10	3 3 13	3 3 6	3 3 6	3 3 3	
	3 3 10	3 3 13	3 3 6	3 3 6	3 3 3	
	3 3 10	3 3 13	3 3 6	3 3 6	3 3 3	

GRADUATE INSTRUCTION.

Graduates of this and other Colleges, and other persons of approved attainments, are provided advanced instruction in certain lines of study, with or without reference to a degree.

The subjects in which at present Graduate Instruction is offered are the following :

LATIN.

Professor BARBER: The Satirists; the Roman Drama; Roman Law.

GREEK.

Professor McMILLAN: The Lyric Poets; the Comic Drama; Greek Philosophy.

SANSKRIT.

Professor EDGREN: Grammar; Classical and Vedic Reading.

GOTHIC AND GERMAN.

Professor EDGREN: Grammar and Ulphilas.

Mr. FOSSLER: Old and Middle High German.

COMPARATIVE PHILOLOGY.

Professor EDGREN: Phonetics of Sanskrit, Greek, Latin, and Gothic.

MATHEMATICS AND CIVIL ENGINEERING.

Professors HITCHCOCK and LITTLE: Analytical Mechanics; Higher Geometry; Determinants; Quaternions; Geodesy.

ENGLISH.

Professor SHERMAN: Anglo-Saxon and Middle English; English or American Literature.

HISTORY.

Professor HOWARD: Growth of the English Constitution, or American Institutional History.

ECONOMIC AND POLITICAL SCIENCE.

Associate Professor WARNER: Private Corporations; Municipal Finance; or original work based on the elective courses described elsewhere.

CHEMISTRY.

Professors NICHOLSON and LLOYD: Analysis of the Minerals and

Waters of the state; Ultimate Analysis of Organic Products; Analysis of Gases; Study of Unsolved Chemical Problems.

NATURAL SCIENCES.

Professor HICKS: Topographic work; Special field problems in Structural Geology; Optical investigation of Minerals and Rocks; Advanced Petrology.

Professor BESSEY: Advanced work in Vegetable Physiology, and the Structure and Classification of the Lower Plants.

Professor KINGSLEY: Histology and Embryology.

THE DEGREE OF MASTER OF ARTS.

The degree of Master of Arts is conferred upon graduates of this or any other college of equivalent undergraduate courses, who have passed a satisfactory examination in certain lines of study pursued under the direction of the Faculty.

None but resident students are eligible to examination for the degree of Master of Arts, and at least one year's study is required. Candidates are restricted in the choice of studies to a single department. In the department selected each student may give his whole time to a single (or *Complete*) subject; or, if he prefer, having so arranged his time as to devote 60 per cent to a *Major* subject, he is at liberty either to give the remaining 40 per cent to one *First Minor* subject or to divide it between two *Second Minors*, each having a value in time of 20 per cent. The minimum amount of time, or work, necessary to render the candidate eligible to examination for the degree in any department may therefore be represented by 100; but this minimum being reached, candidates may offer for higher standing other subjects in any department they may choose.

Instruction is not given to candidates studying for the Master's degree, except in connection with the studies named above. But all professors not offering instruction will aid the student in the selection of his subjects, and from time to time advise and assist him in preparing for his examination. The examination is mainly written, and the result in each subject is determined by a committee consisting of the examiner and an associate. Each candidate, moreover, after passing the examination, must present an acceptable thesis upon some topic included in the studies of the year;* each thesis to be *publicly defended*, if required.

All candidates for the degree of M. A. must pay to the steward a fee of \$10 before examination.

* Except in the subjects of Sanskrit and Modern Languages, in which the preparation of a thesis is optional.

GRADUATE COURSES OF STUDY.

I.—DEPARTMENT OF POLITICAL SCIENCE AND HISTORY.

I. POLITICAL SCIENCE.

Complete Course (100).—Political Economy: *a.* History of the Science; *b.* General Economic Theory; *c.* Applications, and Unsettled Questions.

Major Course (60).—Same as above, but less extended in *a* and *c*.

First Minor Course (40).—Constitutional Law: *a.* The Constitution of Nebraska, with comparison of other State Constitutions; *b.* The Constitution of the United States, with comparison of those of other Constitutional nations.

Second Minor Course (20).—International Law: *a.* Theory (in some standard work, as Woolsey); *b.* Practice (as illustrated in select treaties and chapters of modern diplomacy).

II. HISTORY.

Complete Course (100).—1. Growth of the English Constitution; (or) 2. American Institutional History.

Major Course (60).—1. Studies in Grecian and Roman Political Institutions; (or) 2. Ecclesiastical Institutions.

First Minor Course (40).—Select studies in Mediæval History.

A Seminary is conducted under the leadership of the Professors in the departments of History and Political Science; and all graduate students are required to attend its meetings and participate in its work.

II.—DEPARTMENT OF ANCIENT LANGUAGES AND COMPARATIVE PHILOLOGY.

I. LATIN.

Complete Course (100).—*a.* Latin Satirists, or Latin Drama; *b.* Latin Literature; *c.* Merguet's *Entwickelung der Lateinischen Formenlehre*; *d.* Stolz's *Lateinische Grammatik*; *e.* Delbrück's *Introduction to the Study of Language*.

Major Course (60).—The same as above, with less extended reading, and Merguet and Delbrück omitted.

First Minor Course (40).—*a.* Lucretius; *b.* Stolz's *Lateinische Grammatik*, and Latin Literature.

Second Minor Course (20).—*a.* Tacitus' *Annals*; *b.* Latin Literature.

II. GREEK.

Complete Course (100).—*a.* Pindar and Æschylus; *b.* Mahaffy's History of Classical Greek Literature; *c.* Symonds's Study of the Greek Poets; *d.* Brugmann's Griechische Grammatik; *e.* Delbrück's Introduction to the Study of Language.

Major Course (60).—The same as above, with less extended reading, and Symonds and Delbrück omitted.

First Minor Course (40)—*a.* Æschines's Oration against Ctesiphon; *b.* Brugmann's Griechische Grammatik; *c.* Mahaffy's History of Greek Literature.

Second Minor Course (20).—Same as last, Brugmann's Grammar omitted.

III. SANSKRIT.

Complete Course (100).—Edgren's Grammar; Lanman's Reader, pp. 1-68; Bhagavadgīta, 12 songs; Çakuntalā, 4 acts.

Major Course (60).—Edgren's Grammar; Lanman's Reader, pp. 1-68; Bhagavadgīta, 5 songs.

First Minor Course (40).—Edgren's Grammar; Lanman's Reader, pp. 1-44.

Second Minor Course (20).—Edgren's Grammar; Lanman's Reader, pp. 1-16.

IV. COMPARATIVE PHILOLOGY.

Major Course (60).—Following college course in Greek and Latin, so much Sanskrit as is included in the Second Minor; Whitney's Life and Growth of Language; Delbrück's Einleitung in das Sprachstudium; Lectures on the Phonetics of Sanskrit, Greek, Latin and Gothic.

Minor Course (40).—Same as Major Course, Whitney and Delbrück excepted.

First Minor Course (40).—Latin, Greek, and Sanskrit as above; Whitney's Life and Growth of Language; Outlines of Brugmann's Compendium.

III.—DEPARTMENT OF MODERN LANGUAGES.

I. GERMAN GROUP.

ENGLISH.

Complete Course (100).—Grein's Bibliothek des Angelsächsischen Poesie, Vol. II., with Ten Brink's Early English Literature.

Major Course (60).—Genesis and Exodus, Sir Gawayne and the Green Knight, Lancelot of the Laik, Morte d'Arthure, Merlin, West Mid-Land Alliterative Poems, and Havelock the Dane (in Early English Text Society's publications).

First Minor Course (40).—Layamon's Brut, King Horn, The Ancren Riwle, The Minor Works of Chaucer.

Second Minor Course (20).—Robert of Gloucester's, and Peter Langtoft's Chronicles.

GERMAN AND GOTHIC.

Complete Course (100).—*a. Modern German:* Scherer's Geschichte der deutschen Literatur; a careful study of some author or literary period; Schleicher's Geschichte der deutschen Sprache, pp. 1-129.

Old High German: Braune's Altdeutsches Lesebuch.—*Gothic:* Braune's Gothische Grammatik (with text).

Major Course (60).—Same as above, Gothic omitted, and less reading in Old High German.

First Minor Course (40).—Same as Major Course, Old High German omitted.

Second Minor Course (20).—About 500 pages reading (from authors not studied in college); Schleicher's Geschichte der deutschen Sprache.

II. ROMANCE GROUP.

Complete Course (100).—*a. French:* Démogeot's Historie de la littérature française; Démogeot's Textes classiques de la littérature française; Clédat's Historical Grammars of Old and Modern French; Clédat's Chanson de Roland (60 pp.).—*b. Italian:* Cotterill's selections from Dante and Tasso.—*c. Spanish:* Knapp's Spanish Readings.—*d. Outlines of Romance Philology.*

Major Course (60).—Same as Complete Course, Clédat excepted.

First Minor Course (40).—Same as Major Course, Spanish excepted.

Second Minor Course (20).—Herrig and Burguy's La France littéraire; Clédat's Historical Grammar of Modern French.

The courses marked out in this Department are those recommended to the candidate, but others, if deemed equivalent, will be accepted.

III. COMPARATIVE PHILOLOGY.

Same as in the Department of Ancient Languages and Comparative Philology.

IV.—DEPARTMENT OF MATHEMATICS, AND CIVIL ENGINEERING.

V.—DEPARTMENT OF BOTANY AND ZOOLOGY.

VI.—DEPARTMENT OF CHEMISTRY AND PHYSICS.

VII.—DEPARTMENT OF GEOLOGY AND MINERALOGY.

VIII.—DEPARTMENT OF BIOLOGY AND AGRICULTURE.

In these Departments no attempt has been made to differentiate courses according to the general plan above. The professors in charge will arrange and adapt suitable courses on application of candidates.

COURSES OF PUBLIC LECTURES.

The University has instituted courses of Lectures upon topics of general interest, to which the public may obtain free access by application for tickets at the Chancellor's office. These lectures are to be given in the Chapel on Thursday afternoons at 5 o'clock.

Announcements will be made of the subjects on the opening of the Fall term.

THE LATIN SCHOOL.

In this school preparation is afforded for all the Undergraduate Courses in the University.

Applicants for admission to the First Year will be examined in the following subjects:

English Grammar.

Arithmetic.—Fractions, denominate numbers, percentage and its applications, analysis, and proportion.

Geography.

History of the United States.

Applicants for admission to the Second Year will be examined in the several studies of the First Year, and must attain a grade of sixty on the scale of one hundred. No conditions are allowed.

Examinations of candidates will be held at the University, commencing at 9 A. M. on Thursday and Friday after Commencement, June 12 and 13, 1890, and on Tuesday and Wednesday, September 16 and 17, before the opening of the Fall Term. Attendance at the opening of the examinations is required in all cases.

ADMISSION BY DIPLOMA.

Candidates holding diplomas from the High Schools of *Aurora, Columbus, Fairmont, Friend, Gibbon, Harvard, Hebron, Holdrege, McCook, North Loup, North Platte, Red Cloud, Sutton, and Wilber* will be admitted to the Second Year without examination.

There is but one course of study preparatory to all the College Courses. In the second year the student chooses between Greek and Science. The arrangement of the studies for the two years is as follows:

FIRST YEAR.

FIRST TERM.

Latin.—Allen's New Latin Method. (Five hours.)

Algebra.—Olney's Elementary Algebra. (Five hours.)

English.—Practical Exercises in Vocal Expression (Two hours.)

History.—Barnes's, Swinton's, or Myers's General History: Roman and Greek History. Library work from blackboard diagrams. (Three hours.)

SECOND TERM.

Latin.—Allen's New Method, continued; Cæsar begun; Allen and Greenough's Grammar. (Five hours.)

Algebra.—Olney's University Algebra. (Five hours.)

English.—Logical and philological study of English Grammar, with exercises for the practical application of the principles deduced.

History.—Mediæval or English History. Library work, as in first term. (Three hours.)

THIRD TERM.

Latin.—Allen and Greenough's Grammar; Cæsar, book II. (Five hours.)

Algebra.—Olney's University Algebra. (Five hours.)

English.—Grammar Completed; exercises in capitalization and punctuation. (Two hours.)

History.—Modern or English History. Library work as before. (Three hours.)

SECOND YEAR.

FIRST TERM.

Latin.—Cæsar, books I. and III.; Daniell's Latin Composition. (Five hours.)

Algebra.—Olney's University Algebra, finished; Wells's Geometry, begun. (Five hours.)

English.—One Essay on an assigned subject.

Greek.—Goodwin's Grammar; Boise and Pattengill's First Lessons in Greek. (Five hours); *or*

Botany, Physics and Chemistry.—The gross anatomy of the flowers, fruit, leaves, and roots of several plants; talks on Green Slime, Yeast-Plant, Black Mould, Green Felt, and Grape Mildew (one hour); Balfour Stewart's Lessons in Elementary Physics; Mechanics, Sound and Heat, (two hours); Study of the Non-Metallic Chemical Elements; two class exercises, with five hours laboratory practice a week. (Two hours.)

SECOND TERM.

Latin.—Cicero, First, Second, and Third Orations against Catiline; Daniell's Latin Composition. (Five hours.)

Geometry.—Wells's Geometry, continued through book V. (Five hours.)

English.—One Essay on an assigned subject.

Greek.—Greek Grammar, and First Lessons, finished; Anabasis begun, (five hours); *or*

Botany, Physics, Chemistry, and Drawing.—The gross anatomy of stems and buds, and a study of the effects of low temperature on vegetation; talks on Seaweeds, Blights, Cup Fungi, Black Fungi, Rusts, and Smuts (one hour); Stewart's Lessons; Heat, Light, Electricity and Magnetism (three hours); Non-metallic elements continued, one hour of class exercises, with two hours and a half of laboratory practice per week; Free-hand Drawing (one hour).

THIRD TERM.

Latin.—Cicero; Fourth Oration against Catiline, and Poet Archias; Daniell's Composition. (Five hours.)

Mathematics.—Wells's Geometry, through book VII. (Five hours.)

English.—One Essay on an Assigned Subject.

Greek.—Greek Grammar; Anabasis, book I., (five hours); *or*

Botany, Drawing, and Chemistry.—The structure, analysis and identification of flowering plants (Gray's Lessons and Manual); and the preparation of a collection of one hundred plants in herbarium (two hours). Non-metallic elements continued: two class exercises and five hours of laboratory practice a week.

ANNOUNCEMENT.

After July 1, 1891, the first year of the Latin School *will be discontinued* in accordance with the following recommendation of the Regents' Committee on Courses of Study:

"Inasmuch as many of the High Schools of the state are doing work in the line of preparing students for the University proper, and are duplicating the work of the first year of the Latin School, your committee therefore recommend that from and after July 1, 1891, the course of study in the first year of the Latin School be discontinued."

This recommendation was adopted December 18, 1889. Prospective students will take notice, and govern themselves accordingly.

SCHOOL OF THE FINE ARTS.

As it is not yet possible for the University to open the College of Fine Arts, it is necessary for the teachers of Art and Music to make a charge for tuition.

GRAPHIC ART.

Under the direction of Sarah Wool Moore, a pupil of Eisenmenger, Rector of the Vienna Academy of Fine Arts, instruction is given in drawing and painting from the flat, from casts, still-life, nature, and live models in the progressive order necessary to systematic training of the eye and hand. Pupils are required to provide easels and material; the studio furnishes an ample selection of casts and studies.

TUITION FEES.

Daily lessons during eleven weeks.....	\$25.00
Four lessons weekly eleven weeks	21.00
Three lessons weekly eleven weeks	17.00

A course of lectures, abundantly illustrated, on Art History, especially Architecture, Sculpture and Painting, extends through the year.

Classes are also conducted in Perspective, and Artistic Anatomy.

MUSIC.

Instruction is given in the various branches of Music as follows :

I.—THE PIANOFORTE.

The following is an outline of the course of instruction :

FIRST TWO YEARS.

Lebert and Stark's First and Second Books, Plaidy's or Handrock's Technical Studies — Czerny, Kohler, Bertini, Loeschhorn, and Heller's Studies.

THIRD YEAR.

Lebert and Stark's Third Book, Cramer's Studies, Sonatas and other works of Clementi, Mozart, Beethoven, and Mendelssohn.

FOURTH YEAR.

Moscheles, Kullak, Schumann, Rubinstein, Liszt, and Chopin.

The most careful training practicable is given; particular attention is paid to technique, style, phrasing, and to that which constitutes the chief power of the performer, expression.

The Conservatory or Class System is employed, or private lessons given at the option of the pupil.

II.—THE ORGAN.

Lessons are given on the Pipe and Reed Organ, and, as in the Piano-forte department, are designed for the purpose of imparting a complete training. The technical works of Best, Stainer, Rinck, etc., and the compositions of Bach, Mendelssohn, Merkel, Guilman, etc., are used.

III.—THE VOICE.

Training of the voice: Care of the vocal organs; Management of the breath; Carefully selected exercises, scales (major, minor, and chromatic), and arpeggios are given in order to obtain flexibility of voice and a clear enunciation of words.

Classes in the rudiments of Music will be formed, if a sufficient number desire it.

IV.—MUSICAL THEORY.

Harmony, Counterpoint, Fugue, Form, Instrumentation, Composition, etc., may be studied separately or in classes.

V.—THE VIOLIN.

Instruction upon this instrument is given by a teacher trained in the Berlin and Leipzig Conservatories. Great care is taken to have the pupil attain a correct position, on which the development of tone and technique so largely depends.

Musical Soirees are given during the year, in order that pupils may become accustomed to playing before the public.

TUITION FEES.

For a period of ten weeks—two lessons per week—payable one-half in advance, and the balance at the middle of the term.

PIANO, Private lessons, one hour.....	\$15 00
Private lessons, half hour.....	10 00
Classes of two pupils, each.....	7 50
Classes of four pupils, each.....	5 00
Use of Piano (one hour daily), per month.....	1 00
VOICE CULTURE, Private lessons, one hour.....	\$15 00
Private lessons, half hour.....	10 00
THOROUGH BASS AND HARMONY, Classes.....	8 00

No deduction can be made for temporary absence from lessons, or lessons discontinued, except in cases of illness. Pupils should enter the classes at the beginning of the term.

For further information apply to Ermina D. Cochran.

GENERAL INFORMATION.

THE UNIVERSITY AND THE STATE.

The University of Nebraska is a part of the public educational system of the State. The governing body of the institution is a Board of Regents elected by popular vote for terms of six years, as provided in the State constitution. The University aims to complete and crown the work begun in the public schools, by affording to the inhabitants of this State the means for acquiring a thorough knowledge of the various branches of literature, sciences and the arts.

Through the aid received from the United States (first, in a grant of seventy-two sections of land "for the support of a State University," and second, in a grant of 90,000 acres of land for the Industrial College, "for the benefit of agriculture and the mechanic arts") and the State (in a fund derived from a tax of three-eighths of a mill upon each dollar of valuation on the grand assessment roll of the State), the University is enabled to offer its privileges without charge for tuition, to all persons, without regard to sex, color or nationality, who are qualified for admission.

The law establishing the University provides that "the University may embrace five departments, to-wit: *First*, a College of Literature, Science and Arts; *second*, an Industrial College, embracing agriculture, practical science, civil engineering and the mechanic arts; *third*, a College of Law; *fourth*, a College of Medicine; *fifth*, a College of Fine Arts." Of these the first and second only are yet in operation.

THE ACCREDITED HIGH SCHOOLS.

By an arrangement made several years ago, the graduates of Accredited High Schools and Academies may enter the University without examination, on presentation of their diplomas. There are two grades of these accredited schools, viz.: Those which prepare candidates for the second year of the Latin School ("Minor Course"), and those which prepare for the Freshman class ("Major Course").

Any school in order to be accredited to either course must, on request of the school board, be visited by a member of the University Faculty, who will then report to the Faculty the condition of the inspected school. The Faculty will then in their discretion either accept the school or reject it. Acceptance is either for one, two, or three years, and each school is required to make an annual report to the Faculty.

OFFICIAL LIST OF ACCREDITED SCHOOLS.

I. For the Major Course, preparing for the Freshman Class:

ALMA	P. P. Bentley, Supt. and Principal.
AUBURN	{ Charles Fordyce, Superintendent. R. D. Overholt, Principal.
ASHLAND	{ J. W. Crabtree, Superintendent. T. A. Williams, Principal.
BEATRICE	{ C. G. Pearse, Superintendent. Ossian H. Brainerd, Principal.
CRETE	W. H. Skinner, Supt. and Principal.
FREMONT	{ J. A. Hornberger, Superintendent. Miss Nettie Torrance, Principal.
GRAND ISLAND	{ Robert J. Barr, Superintendent. E. E. Cole, Principal.
HASTINGS	J. B. Monlux, Supt. and Principal.
KEARNEY	{ J. T. Morey, Superintendent. Miss M. I. Stewart, Principal.
*LINCOLN	{ E. T. Hartley, Superintendent. Burr Lewis, Principal.
*NEBRASKA CITY	H. D. Rakestraw, Supt. and Principal.
ORD	J. M. Hussey, Supt. and Principal.
PLATTSMOUTH	{ W. W. Drummond, Superintendent. Curran F. Palmer, Principal.
TECUMSEH	W. H. Gardner, Supt. and Principal.
*ULYSSES	C. H. Aldrich, Supt. and Principal.

Those marked with an asterisk (*) prepare for all the courses of the University.

II. For the Minor Course, preparing for the second year of the Latin School:

AURORA	H. R. Corbett, Principal.
COLUMBUS	Mrs. A. C. Ballou, Principal.
FAIRMONT	J. S. Van Eaton, Principal.
FRIEND	D. G. Hopkins, Principal.
GIBBON	C. A. Fulmer, Principal.
HARVARD	A. V. Storm, Principal.
HEBRON	W. W. Brittain, Principal.
HOLDREGE	W. R. Hart, Principal.
MCCOOK	Wm. Valentine, Principal.
NORTH LOUP	W. C. Cobb, Principal.
NORTH PLATTE	M. H. Lobdell, Principal.
RED CLOUD	Alice E. D. Goudy, Principal.
SUTTON	Alexander Stephens, Principal.
WILBER	R. M. Thomson, Principal.

BUILDINGS AND GROUNDS.

The principal buildings and appliances of the University are situated near the business centre of Lincoln. The Farm of the Agricultural Experiment Station is on the eastern border of the city, within easy reach by horse car or other conveyance.

UNIVERSITY HALL contains the Chancellor's office, Steward's office, Library, Chapel, the Society halls, and twenty lecture and recitation rooms.

NEBRASKA HALL contains the General Museum, and rooms for Botany, Zoology, Geology, Agriculture, Entomology, Horticulture, and Physics.

THE CHEMICAL LABORATORY is devoted to Chemistry, and contains the several laboratories and offices.

GRANT MEMORIAL HALL is devoted to military science and gymnastics.

THE EXPERIMENT STATION FARM includes 320 acres of rolling upland in a good state of cultivation. On it are a farm house, a large barn, and other buildings.

THE LIBRARIES.

The collections of books accessible to students are the General Library, the Department libraries, the State Library, the City Library, and the Library of the State Historical Society. They contain in the aggregate about 50,000 volumes.

I.—THE GENERAL LIBRARY.

The UNIVERSITY LIBRARY now contains about 12,000 volumes. About three thousand dollars will be expended in the purchase of books during the coming year. The General Reading room is supplied with the best American and Foreign magazines and periodicals. Both Library and Reading room are open from 8:30 A. M. until 12:30 P. M., and from 2 P. M. to 5 P. M. each day.

II.—DEPARTMENT LIBRARIES.

The AGRICULTURAL LIBRARY contains about 400 volumes of works on Agriculture, Stock Breeding, Forestry, etc.

The CHEMICAL REFERENCE LIBRARY of about 600 volumes is placed in the weighing room of the Laboratory and is open to students under certain restrictions, during working hours. It contains a full set of the following journals: *Berichte der Deutschen Chemischen Gesellschaft*; *Chemisches Centralblatt*; *Chemical News*; *Zeitschrift für Analytische Chemie*; *American Chemical Journal* and the *Journal of Analytical Chemistry*. Students have access to *Comptes Rendus*, *Journal of the (London) Chem-*

ical Society, Jahresbericht über die Fortschritte der Chemie, and the Analyst. The library also contains the leading text books and other important Chemical publications.

The BOTANICAL LIBRARY consists of special works on systematic and structural botany, and includes 700 volumes and a considerable number of pamphlets. It is supplied with full sets of Annales des Sciences Naturelles, Pringsheims Jahrbücher für wissenschaftliche Botanik, Grevillea, Botanical Gazette, Journal of Mycology, Garden and Forest, and current volumes of all of the more important Botanical periodicals.

The PHYSICAL LIBRARY contains about 400 bound volumes, together with a number of memoirs in pamphlet form. It includes complete sets of Poggendorff's and Wiedemann's Annalen der Physik und Chemie, and the Beiblätter. The more important physical journals are also kept on file, including Philosophical Magazine, Journal de Physique, Wiedemann's Annalen, Electrical Engineer, and several other journals of reference are accessible.

III.—OTHER LIBRARIES ACCESSIBLE TO STUDENTS.

Besides the General and Special collections belonging to the University there are several other libraries in the city to which students have access. Of these the most important is THE STATE LIBRARY, located in the Capitol. This is one of the best law libraries in the country, and contains at present about 30,000 volumes. The collections of statutes, archives, colonial records and miscellaneous documents are of inestimable value to advanced students in institutional history and economics.

The excellent PUBLIC LIBRARY (of about 6,000 volumes) of the city of Lincoln is now free to all. It contains many well-selected standard works in history and general literature.

Advanced students are also allowed to consult the collections of the STATE HISTORICAL SOCIETY, which are especially rich in sources of American colonial history.

THE MUSEUMS.

The Museums of the University contain material illustrative of natural history, agriculture and other departments of study. In some of these the collections are already of considerable size, while in others a beginning only has been made. They are so arranged as to render them accessible to students and visitors. As these Museums afford a safe repository for objects of value, it is hoped that frequent gifts will be made to the several collections.

NATURAL HISTORY.

I. The MINERALOGICAL COLLECTION includes most of the ordinary mineral species, fine crystals, both cut and uncut, for optical investigation, a series of crystalline rocks collected and named by Professor C. H. Hitchcock, a valuable series of agates and agatized woods, ores of the ordinary and precious metals of North America, and a fine collection of South American gold and silver ores, the latter presented by General Victor Vifquain, U. S. Consul at Colon.

II. The GEOLOGICAL COLLECTION includes building stones, concretions, geodes, drift-boulders, sea-shore and river boulders, clays, marls, peat, coal, petroleum, ores, sections, maps, and other illustrations of structural, dynamical, and economic geology.

III. The PALÆONTOLOGICAL COLLECTION includes series of fossils from nearly all the productive horizons, especially those represented in Nebraska. The dicotyledonous leaves of the Dakota group are well represented. A fine series of bryozoan corals, collected and named by E. O. Ulrich, has recently been acquired.

IV. The ZOOLOGICAL COLLECTION.—For illustration in the several branches of Zoology material is available as follows: Alcoholic specimens of the marine invertebrates, representing the lower branches; marine, fresh water and land molluscs; a set of mounted specimens of the native birds and mammals; a small collection of the local fishes and reptiles; a small collection of skulls and skeletons of vertebrates; microscopical preparations of the smaller insects, crustaceans, histological material, etc.

The Instructor's private collection of upwards of 150,000 specimens of molluscs, insects, marine invertebrates, fishes, microscopic slides, etc., are also accessible to the students of Zoology.

V. The ENTOMOLOGICAL COLLECTION, belonging to the Experiment Station, comprises thirty "display cases" arranged to show the economic relations of certain insects, together with a beginning of a general collection illustrating the insect fauna of the state. These, with the private collection of the Station Entomologist, include about 75,000 specimens, representing from 8,000 to 10,000 species.

VI. The UNIVERSITY HERBARIUM includes, in addition to a pretty full representation of the plants of the state, a number of valuable sets prepared by eminent specialists, e. g. Thuemen (*Mycotheca Universalis*), Linhart (*Ungarns Pilze*), Ellis (*N. A. Fungi*), Areschoug (*Alg. Scand.*), Rabenhorst (*Alg. Sach. et Alg. Europ.*), Le Jolis (*Alg. Mar. Cherb.*), Massalongo (*Lich. Ital.*), Stenhammar & Fries (*Lich. Suec.*), Tuckerman (*Lich. Am. Bor.*), Gottsche & Rabenhorst (*Hepat. Europ.*), Austin (*Hepat. Am. Bor.*), Austin (*Musci Appl.*), Curtiss (*N. A. Plants*).

The above collection includes about 25,000 specimens, of which about 8,000 are fungi, 5,000 algæ, 1,000 lichens, 900 hepaticæ, 1,000 musci, 450 pteridophytes, 9,000 phanerogams.

AGRICULTURAL MUSEUM.

The AGRICULTURAL MUSEUM contains collections of grains, grasses, forage plants, woods, fibres, etc., etc., aggregating about 1,200 specimens.

CLASSICAL COLLECTION.

A beginning has been made of a collection of busts, reliefs, maps, engravings, etc., to illustrate ancient Greek and Roman history.

CHEMICAL COLLECTION.

A beginning has been made of an illustrative collection of Chemical material. It comprises, at present, the following: Chemical Elements (63 specimens); Chemical Compounds (200); Fluorescent Substances (16); For Spectroscopic work (18); Alkaloids (84). Coal Tar Colors (70); Coal Tar Products (50); Dyed Specimens of Silks, etc. (350); Common Minerals (150); Tiles and Pottery (25); Models of Precious Stones (84); Models of Noted Diamonds (15); the Professor's private collection of Minerals (150); the Professor's private collection of Crystal Models (123).

ART COLLECTION.

In connection with the department of Art the beginning has been made of a collection of casts of statuary, architectural studies, geometrical solids, engravings, etc.

THE LABORATORIES.

In the Laboratories of the University opportunities are provided for the practical study of chemistry, physics, geology and mineralogy, zoology, entomology, botany and agriculture.

CHEMICAL LABORATORY.

The Chemical Laboratory was planned and built after a careful study of the newest and best-arranged laboratories in this country and Europe.

It is well equipped for work, the principal rooms being supplied with hoods, steam and sand baths, drying ovens and filtering pumps. The work tables are furnished with complete sets of reagents, gas, and running water.

Three large rooms are devoted to work in general and analytical chemistry.

Besides these there are two commodious lecture rooms; a room for re-

search and other special work; a library and weighing room; Professors' rooms and rooms for assays, combustions, gas analysis, stores, etc. This affords excellent opportunities for a systematic training in the laboratory method of studying Chemistry.

Instruction is regularly given in general and analytical Chemistry, pure and applied.

The Laboratory is open, each week day, except Saturday, throughout the college year, to all students of the University, and those, not students, who comply with the required conditions.

PHYSICAL LABORATORY.

The Physical Laboratory at present is located in Nebraska Hall on two floors, with engine and dynamo rooms in the new boiler house. The Meteorological Station connected with the department is located in University Hall.

The lecture room is well equipped with apparatus for class demonstrations and lantern projections.

The general laboratory accommodates fifty students, and is provided with apparatus for the determination of most of the physical constants.

The special laboratories for advanced work contain apparatus of the best European and American make.

The rooms for work in Electricity and Magnetism are provided with piers, and the floors are laid on concrete.

The department has also a reference library and study, and rooms for storage of apparatus. A well-equipped shop is also maintained and a mechanic employed continually in constructing and repairing apparatus.

The present laboratory equipment includes balances, pendulums, standard barometer and thermometer, cathetometer, dividing engine and micrometers, goniometer, spectrometer, refractometer, diffraction bench, prisms, vacuum tubes, heliostat, calorimeters, Regnault's apparatus for various heat determinations, siren, standard forks, organ pipes, reading telescopes; resistance boxes by Elliott, Hartmann, and others; galvanometers and electro-dynamometers of various forms and makes, giving a range of sensibility from one hundred-millionth of an ampere to five hundred amperes; electrometers by White, Edelmann, and Carpentier; various forms of voltmeters, ammeters and bridges; four-horse power Otto gas engine, a two-ton electromagnet, dynamos, etc. The U. S. standards are also placed in the care of the department.

Among the pieces which have been added to the equipment during the past year are several sets of resistance coils, including new postoffice pattern by Elliott, Cardew voltmeter, two Thomson galvanometers, Thomson composite balance, Thomson voltmeter reading to 12,000 volts, cradle

dynamometer, 250-light dynamo, 25-light dynamo, air thermometer, volumometer, Becker balance, vapor calorimeter, thermometers, apparatus for volume expansion, Regnault's apparatus for the expansion of mercury, apparatus for linear expansion, apparatus for Boyle's Law, vertical screw micrometer, scale divider, selected diamonds, Coulomb's torsion balance, self-registering hygrometer and thermometer, by Richard; Leitz microscope and accessories; telescope with tripod, equatorial mounting, circles and accessory pieces, by Brashear, the 4-inch objective being of new Jena glass, after Hasting's correction; 4-inch Rowland concave grating spectroscope, with mountings complete, including Lindsay-Gill micrometer, camera, etc., by Brashear; Fuess' universal polariscope, after Groth, with all accessories and goniometer attachment; Nörremberg's apparatus, crystal sections, rhombohedra, presses, etc., for studying double refraction by Fuess; Duboscq's projection lantern, with all accessories, including regulator, vertical projector, galvanometer, thermopile, Nichols, lenses, prisms, etc.; apparatus for studying fluorescence; Lippich half-shade polarizer, by Schmidt and Hensch; large plates and prisms of Faraday glass by Brashear.

There has also been loaned the department by the U. S. Navy the complete outfit of apparatus used by Newcomb for measuring the velocity of light, for the purpose of carrying out certain investigations on the dispersion of light.

Several orders are now being filled by different makers for further equipment.

GEOLOGICAL LABORATORY.

The Geological Laboratory is furnished with ordinary and petrographical microscopes, polariscope with stauroscopic attachment, apparatus for cutting and grinding rock-sections, physiographic and geological maps, barometer and level for topographic work, tables, tools, reagents, gas and water for determinative mineralogy.

ZOOLOGICAL LABORATORY

This is now equipped with tables, lockers, etc., compound microscopes (fifteen made by Leitz), microtome, injecting apparatus, staining fluids, and mounting media for histological and general microscopical work. It is also provided with dissecting instruments, and apparatus for use in collecting and field work.

ENTOMOLOGICAL LABORATORY.

In connection with the work of the Experiment Station the Entomological Laboratory is maintained for investigation, and also for the benefit of advanced students, who are permitted to work with the Entomologist.

BOTANICAL LABORATORY.

The Histological Laboratory is furnished with tables, cases, lockers, water, gas and other conveniences. It is supplied with thirty-two compound microscopes made by Beck, Leitz, and Bausch and Lomb, thirteen dissecting microscopes, scalpels, section cutters, forceps, glassware, staining fluids, reagents, etc. The Physiological Room is in connection with the Conservatory, and is fitted up with apparatus for work in the experimental physiology of plants.

MORPHOLOGICAL LABORATORY.

The Morphological Laboratory has been equipped for investigation in the lines of anatomy, histology, embryology, and physiology. Besides the ordinary apparatus, reagents, and glassware, it is provided with microscopes by Leitz and Zeiss; microtomes (Minot's Automatic, and Reichert's Thoma); camera lucidas after Zeiss and Abbe; recording apparatus by Richard Freres; chronograph, electric signal, Marey's tambours; control fork, and metronome by Verdin; thermostats, Weber's schema, etc.

PATHOLOGICAL LABORATORY.

In connection with the Experiment Station this laboratory has been maintained for purposes of investigation alone. It is well equipped in microscopes, thermostats, culture apparatus, glassware, etc., for bacteriological work.

CIVIL ENGINEERING.

The equipment of this department consists of a Fauth Transit No. 6, with Saegmuller's Solar Adjustment, Heller and Brightly Transit, Wye Level, Hand Level, Plane Table, Vernier Compass and a Rolling Planimeter, made by Corradi, of Zurich; in addition, the usual minor accessories. The drawing room has the necessary equipment.

The Laboratory is well equipped for testing cement. It has a Rieble Machine with tools for testing cement in tension and compression to 2,000 pounds. Also water service, scales, sieves, thermometers, etc.

THE ARMORY.

The equipment of the Military Department consists of one hundred Springfield Cadet-Rifles with accoutrements; a battery of two 3-inch Field Rifles; sixteen commissioned officers' swords and belts; musical instruments and uniforms for military band; flags, etc.

The Armory is open for drill and practice at stated times during the week, and by law all male students in the college classes are required to drill six consecutive terms, unless excused by the Chancellor.

LITERARY AND OTHER SOCIETIES.

The students maintain four literary societies, viz.: The Palladian, The Union, The Philodicean, and The Delian. These meet every Friday evening for literary and musical exercises. On Saturday evenings the young men of the societies conduct several debating clubs for practice in extemporaneous discussion and debate.

The Scientific Club meets every alternate Saturday afternoon for the reading and discussion of scientific papers. The Classical Club meets every third Saturday afternoon for lectures, papers, and discussions in classical philology.

MORAL, RELIGIOUS AND GENERAL CULTURE.

Religious exercises, consisting of Scripture reading, singing, and prayer, are held every morning in the University Chapel, and are attended by a majority of the students, although the attendance is voluntary.

The Young Men's Christian Association, and the Young Women's Christian Association hold regular meetings in room No. 7, of University Hall.

The churches of the city are open to all students and a cordial welcome is always extended to them.

The following church organizations are represented in the city: Baptist, Catholic, Christian, Congregationalist, Protestant Episcopal, Evangelical Lutheran, Swedish Lutheran, Methodist Episcopal, German Methodist, Swedish Methodist, Presbyterian, Reformed, Seventh Day Adventists, United Brethren, and Universalist.

The Capital City furnishes in various ways many opportunities for culture of which the student may take advantage if he chooses. The Haydon Art Club, which has for its object the encouragement of art, meets regularly once a month in the University chapel, where it has hung a set of twenty-five fine etchings by Urger, Flaming, Urlaub, Schoenleber, Parmentier and others. The Club during the past year secured the exhibition in the city of the "Century collection" of drawings, and granted special admission privileges to University students.

Musical concerts of a high order of excellence are given by local societies; and from time to time excellent dramatic entertainments are supplied by the managers of the Opera House.

The annual January meetings of the State Historical society, and the State Agricultural society, held in the University chapel, and those of the State Horticultural society, and the State Bee Keepers' association in the Botanical Lecture room, with the Annual Corn Show and Fruit Exhibit in the Armory, present opportunities of great value to the student interested in these subjects.

FEES AND EXPENSES.

MATRICULATION FEE. Every student, before entering any department of the University, is required by the law of the state to pay a Matriculation Fee of five dollars, which entitles him to the privileges of permanent membership in the University.

TUITION. By law, the tuition in the established colleges of the University is free to all residents of Nebraska.

LABORATORY EXPENSES Students pay for the materials and apparatus they actually consume. In chemistry this varies from five to ten dollars per year.

DIPLOMA FEE. Upon graduation, each student pays a diploma fee of five dollars.

OTHER EXPENSES. These vary much, according to the individual habits of the student. An investigation, recently made, shows that some students get through the year on less than one hundred and seventy-five dollars, while others spend nearly three times that sum.

Board and Lodging from.....	\$145.00	to	\$400.00
Books.....	15.00	to	25.00
Stationery.....	2.00	to	10.00
Other Expenses, including Societies	7.00	to	47.00
Total for the year.....	\$169.00	to	\$482.00

Board and lodging are obtained in private families at from \$2.50 to \$3.50 per week. In the student boarding clubs, of which there are several, the cost of board is about \$2.00 a week. Room rent varies from fifty cents or less to \$1.50 a week for each student.

The University maintains no dormitory or boarding hall, but the steward will give information in regard to rooms and board, to all who apply at his office (Room 6, University Hall).

MANUAL LABOR. While the University cannot undertake to furnish manual labor to many students, it is enabled to do so to a limited extent upon the farm and campus, and in the various buildings, at rates varying from fifteen to twenty-five cents per hour (dependent upon the quality of work). Many students find work in private families and in various occupations, by means of which they defray a portion of their expenses. A person of ability and energy, *who is master of a trade or who can do first class work*, can always find remunerative employment.

ALUMNI ASSOCIATION OF THE UNIVERSITY OF NEBRASKA.

OFFICERS.

R. L. MARSH '84.....President.

VICE PRESIDENTS.

W. H. SNELL	'73	ANNIE R. SCHUCKMAN	'81
U. H. MALICK	'74	MRS. A. W. FIELD	'82
C. W. RHODES	'76	C. C. CHASE	'83
A. W. FIELD	'77	E. J. ROBINSON	'84
H. H. WILSON	'78	MARY L. JONES	'85
C. N. LITTLE	'79	C. S. ALLEN	'86
S. D. COX	'80	C. S. POLK	'87

J. G. SMITH '88

Secretary and Treasurer.....LAURENCE FOSSLER.
 Corresponding Secretary.....MARY A. TREEMAN.
 Historian.....A. L. FROST.
 Necrologist.....E. C. WIGGENHORN.

EXECUTIVE COMMITTEE.

A. G. WARNER,	MRS. C. T. BROWN,
A. L. FROST,	S. D. COX,
ROSCOE POUND.	

The annual reunion and banquet of the Alumni Association takes place on the afternoon and evening of the day preceding commencement, June 10, 1890. The address for the current year will be delivered by H. H. Wilson, of the class of '78.

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THE
UNIVERSITY OF NEBRASKA

CATALOGUE

1890-91



LINCOLN, NEBR.
PUBLISHED BY THE UNIVERSITY
1891

THE HUNTER PRINTING HOUSE, LINCOLN, NEBR.

OFFICES, OFFICE HOURS, ETC.

THE GENERAL OFFICE is in room 6 on the first floor of University Hall. All inquiries relating to University matters may be made here. This office is open from 8:30 A. M. to 12:30 P. M., and from 2 to 6 P. M., of every week day.

THE ACTING CHANCELLOR is in the office from 10:30 to 11:30 A. M. and from 5 to 6 P. M., of every school day;

THE STEWARD is in his office from 9 A. M. to 12:30 P. M., and from 2 to 5 P. M., of every week day.

THE DEAN OF THE INDUSTRIAL COLLEGE is in his room, No. 12, on the first floor of Nebraska Hall, during every week day.

THE PRINCIPAL OF THE LATIN SCHOOL is in his room, No. 3, on the first floor of University Hall, from 3 to 4 P. M. of every school day.

THE DIRECTOR OF THE EXPERIMENT STATION may be found in room 10, on the second floor of the Chemical Laboratory.

ABBREVIATIONS.

CL., Classical Course; LIT., Literary Course; SC., Scientific Course; AGR., Agricultural Course; ENG., Civil Engineering Course; U., University Hall; N., Nebraska Hall; C., Chemical Laboratory; G., Grant Memorial Hall.

For Catalogues and general information, address THE STEWARD of
the University of Nebraska, LINCOLN, NEBRASKA.

ANNOUNCEMENTS FOR 1890-91.

1890.

September 16-17, Examinations for admission.
September 17, FIRST TERM begins.
November 27, Thanksgiving Day.
December 16, Regular Meeting of the Regents of the University.
December 24, FIRST TERM ends.

1891.

January 2, SECOND TERM begins.
February 15, CHARTER DAY.
March 20, SECOND TERM ends.
March 30, THIRD TERM begins.
May 14 to 18, Annual Encampment of Cadets.
May 23, Close of Senior Examinations.
May 30, Memorial Day.
June 1-6, Final Examinations.
June 7, Baccalaureate Address.
June 8, Commencement Concert.
June 9, Annual Meeting of the Regents of the University.
June 9, (A. M.) Class day Exercises.
June 9, (P. M.) Alumni Reunion.
June 10, COMMENCEMENT.

SUMMER VACATION.

June 11-12, Examinations for Admission.

September 15-16, Examinations for Admission.
September 16, FIRST TERM begins,

1891.

JANUARY

Sun.	Mon.	Tues.	Wed.	Thu.	Fri.	Sat.
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NOVEMBER

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HON. GEORGE ROBERTS,	<i>Creighton,</i>	Term expires January, 1894.
HON. CHAS. H. MORRILL,	<i>Stromsburg,</i>	Term expires January, 1896.
HON. J. L. H. KNIGHT,	<i>Lee Park,</i>	Term expires January, 1896.

J. STUART DALES, *Lincoln.*
Secretary.

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Professor of Mathematics,
 (15 U.) 1925 E st.
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Professor of Greek,
 (14 U.) 1503 H st.
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Professor of History,
 (20 U.) 1504 S st.
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 (10 C.) 825 S. 31st st.
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 (13 U.) 1806 D st.
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 (25 U.) 245 S. 15th st.
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Professor of Geology,
 (22 N.) 1809 P st.
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Professor of Civil Engineering,
 (10 U.) 1925 E st.
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Professor of Analytical Chemistry,
 (4 C.) 606 N. 16th st.
- DEWITT B. BRACE, PH. D.,
Professor of Physics,
 (23 N.) 1826 F st.
- THOMAS W. GRIFFITH, 1st Lieut. 18th U. S. Infantry,
Professor of Military Science and Tactics,
 (7 G.) 1420 R st.

- J. STERLING KINGSLEY, D. SC.,
Professor of Agriculture and Biology, (12 N.) 1522 S st.
- CHARLES L. INGERSOLL, M. SC.,
Professor of Agriculture.
- HOWARD W. CALDWELL, B. PH.,
Associate Professor of History, (16 U.) 2400 Lynn st.
- EBENEZER W. HUNT, B. A.,
Associate Professor of Rhetoric and Oratory, (27 U.) 923 S. 19th st.
- AMOS G. WARNER, PH. D.,
*Associate Professor of Economic and Political
 Science,* (18 U.) 1426 D st.
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*Associate Professor of Classical Philology, and Principal
 of the Latin School,* (3 U.) 1636 F st.
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Associate Professor of Philosophy, (1 U.) 1644 P st.
- HORACE E. L. HORTON,
Associate Professor of Agricultural Chemistry.
- HAROLD N. ALLEN, B. SC.,
Adjunct Professor of Physics, (26 N.) University Hall.
- T. MOREY HODGMAN, B. A.,
Adjunct Professor of Mathematics, (17 U.) 741 N. 16th st.
- LAURENCE FOSSLER, M. A.,
Adjunct Professor of Modern Languages, (28 U.) 830 N. 23d st.
- FREDERIC W. TAYLOR,
Adjunct Professor of Horticulture, (7 N.)
- SARAH WOOL MOORE,
*Lecturer on the History of Art, and Teacher of Painting
 and Drawing,* (21 U.) 1730 D st.
- HON. ROBERT W. FURNAS,
Lecturer on Forestry, Brownville, Nebr.
- VERNON J. EMERY, M. A.,
Instructor in Latin, (5 U.) 1504 S st.
- H. ELTON FULMER, M. A.,
Instructor in Chemistry, (3 C.) 1926 R st.

- *LANGDON FROTHINGHAM, M. D. V.,
Instructor in Agriculture and Biology, (28 N.) Bond Hotel.
- ERMINA D. COCHRAN MENZENDORF, M. A.,
Teacher of Piano, Organ and Voice Culture, (7 U.) 410 N. 12th st.
- GUSTAV C. MENZENDORF,
Teacher of Violin and Harmony, (7 U.) 410 N. 12th st.
- ALBERT F. WOODS, B. SC.,
Assistant in the Botanical Laboratory, (8 N.) 2544 J st.
- J. STUART DALES, M. PH.,
Steward, (6 U.) 1242 P st.
- ELLEN SMITH, M. A.,
Registrar, and Custodian of the Library, (12 U.) 1204 U st.
- MAX WESTERMANN,
Clerk, (6 U.) 511 N. 16th st.
- LAWRENCE BRUNER,
Entomologist to Experiment Station, (10 N.) 2314 S. 17th st.
- S. W. PERIN,
Foreman of the Station Farm, (Experiment Station), 3630 Holdrege st.

* Resigned March 31, 1891.

GRADUATE STUDENTS.

FRANK FAYETTE ALMY, B. Sc. University of Nebraska, 1890.	}	<i>University Place.</i>	
J. AMOS BARRETT, B. A., University of Nebraska, 1888; M. A., 1889.	}	<i>Lincoln</i>	1611 Q st.
MYRON ISIDORE BIGELOW, B. Sc., University of Nebraska, 1889.	}	<i>Lincoln</i>	528 N. 13th st.
EDNA DEAN BULLOCK, B. L., University of Nebraska, 1889.	}	<i>Lincoln</i>	1511 S st.
MARY RANDOLPH CAMPBELL, B. L., University of Nebraska, 1886.	}	<i>Lincoln</i>	606 N. 16th st.
HENRY BRUCE DUNCANSON, B. Sc., University of Nebraska, 1890.	}	<i>Lincoln</i>	3630 Holdrege st.
VERNON JUDSON EMERY, B. A., Ohio State University, 1887; M. A., University of Nebraska, 1890.	}	<i>Lincoln</i>	1504 S st.
AMOS WILLIAM FOOTE, B. Sc., B. Ag., University of Nebraska, 1883.	}	<i>Lincoln</i>	2107 S. 13th st.
LAURENCE FOSSLER, B. Sc., University of Nebraska, 1881; M. A., 1890.	}	<i>Lincoln</i>	830 N. 23d st.
GEORGE WILLIAM GERWIG, B. A., University of Nebraska, 1889; M. A., 1890.	}	<i>Lincoln</i>	4 State Block.
EDWARD ELLSWORTH GILLESPIE, B. L., University of Nebraska, 1890.	}	<i>Lincoln</i>	1630 G st.
SARA BUTLER HARRIS, B. L., University of Nebraska, 1888.	}	<i>Lincoln</i>	1610 K st.
ALICE FROST HOWARD, B. Ph., University of Nebraska, 1876.	}	<i>Lincoln</i>	1504 S st.
FLORENCE NIGHTINGALE JONES, B. A., Oberlin College, 1883.	}	<i>Lincoln</i>	1420 V st.
MARY LETITIA JONES, B. L., University of Nebraska, 1885.	}	<i>Lincoln</i>	2636 P st.

GERTRUDE HARDENBURG LAWS, B. A., University of Nebraska, 1890.	} <i>Lincoln</i>	1113 H st.
HARRY WALDO NORRIS, B. A., Iowa College, 1886; M. A., 1889.	} <i>Grinnell, Iowa</i>	1522 S st.
MARTIN OSTERHOLM, B. A., Augustana College, 1885; M. A., University of Nebraska, 1890.	} <i>Essex, Iowa</i>	1446 Q st.
HANS CHRISTIAN PETERSON, B. Sc., University of Nebraska, 1890.	} <i>Fulton, Ill.</i>	
FRANCIS WAYLAND RUSSELL, B. Sc., University of Nebraska, 1890.	} <i>Loup City.</i>	
JARED GAGE SMITH, B. Sc., University of Nebraska, 1888.	} <i>Lincoln.</i>	
LEWIS HERBERT STOUGHTON, B. Sc., University of Nebraska, 1890.	} <i>Perry, Iowa</i>	1221 U st.
CHARLES EDWARD TINGLEY, B. Sc., University of Nebraska, 1890.	} <i>Lincoln</i>	3045 O st.
MARY ADELL TREEMAN, B. Sc., University of Nebraska, 1881; M. A., 1890.	} <i>Lincoln</i>	1318 R st.
H. S. WANNAMAKER, B. A., Wofford College, 1884; B. D., Yale, 1887.	} <i>Lincoln</i>	
CORA FISHER WARNER, B. L., University of Nebraska, 1886.	} <i>Lincoln</i>	1427 D st.
THOMAS ALBERT WILLIAMS, B. Sc., University of Nebraska, 1889.	} <i>Ashland.</i>	
ALBERT FRED WOODS, B. Sc., University of Nebraska, 1890.	} <i>Lincoln</i>	2544 J st.

GRADUATE STUDENTS, 28.

ACADEMIC COLLEGE.

(COLLEGE OF LITERATURE, SCIENCE AND THE ARTS.)

FACULTY, AND OTHER INSTRUCTORS.

- CHARLES E. BESSEY, PH. D., *Botany*, DEAN.
 HENRY E. HITCHCOCK, PH. D., *Mathematics*.
 GEORGE McMILLAN, PH. D., *Greek*.
 GEORGE E. HOWARD, M. A., *History*.
 HUDSON H. NICHOLSON, M. A., *Chemistry*.
 GROVE E. BARBER, M. A., *Latin*.
 LUCIUS A. SHERMAN, PH. D., *English Literature*.
 LEWIS E. HICKS, PH. D., *Geology*.
 AUGUST HJALMAR EDGREN, PH. D., *Modern Languages and Sanskrit*.
 RACHEL LLOYD, PH. D., *Analytical Chemistry*.
 DEWITT B. BRACE, PH. D., *Physics*.
 THOMAS W. GRIFFITH, U. S. A., *Military Science and Tactics*.
 HOWARD W. CALDWELL, B. PH., *History*.
 EBENEZER W. HUNT, B. A., *Rhetoric and Oratory*.
 AMOS G. WARNER, PH. D., *Economic and Political Science*.
 JAMES T. LEES, PH. D., *Classical Philology*.
 HARRY K. WOLFE, PH. D., *Philosophy*.

- T. MOREY HODGMAN, B. A., *Mathematics*.
 LAURENCE FOSSLER, M. A., *Modern Languages*.
 SARAH WOOL MOORE, *History of Art*.

STUDENTS.

SENIORS.

- | | | |
|------------------------------|----------------|-----------------|
| Fannie Anna Baker, LIT. | <i>Lincoln</i> | 601 N. 14th st. |
| Frank Elmer Bishop, LIT. | <i>Lincoln</i> | 1646 P st. |
| Ida Bonnell, LIT. | <i>Lincoln</i> | 2345 R st. |
| Edward Provost Brown, LIT. | <i>Lincoln</i> | 255 S. 27th st. |
| William Talmage Brown, CL. | <i>Wyoming</i> | 2321 Lynn st. |
| Thomas Edward Chappell, LIT. | <i>Lincoln</i> | 340 S. 30th st. |

Rose Elizabeth Collins, LIT.	<i>Lincoln</i>	1500 P st.
Albert Alfred Faurot, LIT.	<i>Lincoln</i>	1124 L st.
John Bernard Fogarty, CL.	<i>Gretna</i>	1617 Vine st.
Charles Buckingham Gregory, CL.	<i>Lincoln</i>	1230 L st.
Norman Widaman Peters, LIT.	<i>Albion</i>	28 Barr Block.
Henry Allen Reese, LIT.	<i>Lincoln</i>	1440 M st.
Anna Rogers, CL.	<i>Lincoln</i>	937 L st.
Belle Rogers, CL.	<i>Lincoln</i>	937 L st.
Charles Daniel Schell, CL.	<i>Beatrice</i>	1617 Vine st.
Sara Schwab, CL.	<i>Lincoln</i>	1606 L st.
William James Taylor, CL.	<i>Lincoln</i>	Cor. 32d and Q sts.
Mary Elizabeth Wedgewood, CL.	<i>Lincoln</i>	902 C st.
William Herbert Wheeler, LIT.	<i>Omaha</i>	28 Barr Block
Elinor Louise Williams, CL.	<i>Lincoln</i>	1332 K st.
Richard Owen Williams, CL.	<i>Lincoln</i>	1332 K st.

SENIORS 21.

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James Harvey Hooper, LIT.	<i>Lincoln</i>	2841 U st.
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Frederick Dayton Hyde, CL.	<i>Lincoln</i>	1045 C st.
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James Boyd McDonald, LIT.	<i>North Platte</i>	1327 O st.
Lydia Alberta Mullon, CL.	<i>Lincoln</i>	1311 N st.
Amos Edward Perrin, LIT.	<i>Roca</i>	Bell Block.
Walter Bowers Pillsbury, CL.	<i>Grand Island</i>	1200 T st.
Louise Pound, LIT.	<i>Lincoln</i>	1542 P st.
George Lawson Sheldon, LIT.	<i>Nehawka</i>	33 Barr Block.
Charles McClellen Skiles, LIT.	<i>Elmwood</i>	1633 Q st.
Lura Adelia Stockton, LIT.	<i>Lincoln</i>	1201 U st.
Galen Lamar Tait, LIT.	<i>Beatrice</i>	4 Statè Block.
Josephine Treeman, LIT.	<i>Lincoln</i>	1318 R st.
Thomas Frederick Williams, LIT.	<i>Portsmouth, Iowa</i>	2847 T st.

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Harry Gardner Barber, LIT.	Lincoln	1806 D st.
Norman Burton Barr, CL.	Holdrege	133 S. 11th st.
Horace Stillman Clason, CL.	Lincoln	935 C st.
Lyman Beecher Cornell, LIT	Lincoln	1801 N st.
Elizabeth Content Field, LIT.	Lincoln	2410 Q st.
Lula Helen Fletcher, CL.	Lincoln	811 G st.
Eugenia Dutcher Getner, CL.	Omaha	346 N. 17th st.
John Cecil Graham, CL.	Stella	522 N. 14th st.
Arcule Edward Guilmette, CL.	Hastings	1621 P st.
Emory Chase Hardy, LIT.	Lincoln	1825 M st.
Martha Hutchison, CL.	Ashland	133 N. 18th st.
Ralph Emery Johnson, LIT.	Lincoln	889 N. 27th st.
Julia Marie Korsmeyer, CL.	Lincoln	1840 E st.
Fanny Land, CL.	Lincoln	1436 S st.
Frederick Joseph Larson, CL.	Ulysses	211 S. 27th st.
Derrick Norman Lehmer, CL.	Lincoln	1635 Locust st.
Harrison Springsteed Lord, CL.	Ulysses	522 N. 14th st.
Carlton Claymer Marlay, LIT.	Lincoln	Cor. 23d and B st.
John Law Marshall, Jr., CL.	Pawnee City	Hotel Ideal.
Elizabeth Evelyn Merrill, LIT.	Sterling	500 N. 16th st.
Arthur F. Montmorency, CL.	Omaha	4 State Block.
Paul Pizey, LIT.	Dakota City	1310 S st.
Ernest Mark Pollard, LIT.	Nehawka	1310 S st.
Willits Herbert Sawyer, LIT.	Lincoln	2800 R st.
James Joseph Sayer, LIT.	Lincoln	1635 Vine st.
Charles Francis Stroman, CL.	Ulysses	52 Latta Block.
Lucy Upton, CL.	Lincoln	2030 R st.
Raymond Welch, LIT.	Lincoln	1335 G st.
Hans Theodore Westermann, LIT.	Lincoln	511 N. 16th st.
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George Henry Whaley, CL.	Columbus	1229 S st.
John Piper Williams, CL.	Lincoln	1332 K st.
Thomas Elwood Wing, CL.	Lincoln	2206 S 14th st.
William Francis Wolfe, Jr., CL.	Friend	1221 U st.
Clarence Hubert Woods, LIT.	Lincoln	326 N 17th st.
Daniel Worth, CL.	Fontanelle, Wyo.	Cor. 8th and P sts.

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May Chamberlain, LIT.	<i>Ashland</i>	616 N. 16th st.
Nellie Shreves Cochrane, LIT.	<i>Lincoln</i>	1141 D st.
William Sampson Cochrane, LIT.	<i>Lincoln</i>	1141 D st.
Carrie Clifton Dennis, LIT.	<i>Rockport, Mass.</i>	2003 F st.
Lena Deweese, LIT.	<i>Lincoln</i>	536 S. 16th st.
John Watson Dixon, CL.	<i>Nebraska City</i>	Lindell Hotel.
Charles Andrew Fife, CL.	<i>Fremont</i>	1200 H st.
Clarence Everett Fifer, LIT.	<i>Lincoln</i>	1600 Washington st.
George Frank Fisher, LIT.	<i>Lincoln</i>	1504 S st.
Ernest Allen Gerrard, LIT.	<i>Columbus</i>	435 N. 13th st.
Maud Hammond, CL.	<i>Lincoln</i>	609 S. 17th st.
Amanda Heppner, LIT.	<i>Lincoln</i>	944 Washington st.
Alice Ida Johnson, LIT.	<i>Norfolk</i>	445 N. 13th st.
Ralph Henry Johnson, CL.	<i>Friend</i>	1221 U st
James Henry Johnston,	<i>Humboldt</i>	522 N. 14th st.
William Milton Johnston,	<i>Humboldt</i>	522 N. 14th st.
May Hammett Lewis, CL.	<i>Lincoln</i>	265 S. 27th st.
John Love, LIT.	<i>Lincoln</i>	1220 A st.
Griffith Holmes Maghee,	<i>Rawlins, Wyo.</i>	730 N. 12th st.
Duty von Mansfelde, LIT.	<i>Ashland</i>	1942 S. 17th st.
Gertrude Marsland, LIT.	<i>Lincoln</i>	357 S. 28th st.
Allen Pratt Meaker, LIT.	<i>Ashland</i>	1633 Q st.
Fannie Morton, CL.	<i>Falls City</i>	445 N. 13th st.
Lawrence Bell Pilsbury, LIT.	<i>Fremont</i>	1200 H st.
Florence Sebring Smith, CL.	<i>Lincoln</i>	626 S. 13th st.
Annie May Treat, LIT.	<i>Weeping Water</i>	445 N. 13th st.
Elizabeth Ann Tuttle, LIT.	<i>Lincoln</i>	2408 V st
William Linn Westermann, CL.	<i>Lincoln</i>	511 N. 16th st
Dora Emile Wiggerhorn, LIT.	<i>Ashland</i>	616 N 16th st.
Mell Orlando Wolcott, LIT.	<i>Elk City</i>	127 S. 11th st.
Mrs. A. G. Wolfenbarger, LIT.	<i>Lincoln</i>	2847 T st.

SPECIAL STUDENTS.

Myra Henrietta Babcock	<i>North Loup</i>	1304 J st.
Anne Louise Barr,	<i>Lincoln</i>	641 S. 13th st.
Jessie F. Bigelow	<i>Ogden, Utah</i>	1420 Vine st.
Laura Alma Boehmer	<i>Lincoln</i>	1723 F st.
Oscar Rufus Bowman	<i>Lincoln</i>	948 N. 13th st.
Mary Isabelle Brown	<i>Lincoln</i>	1029 S. 15th st.
Ada Bertha Caldwell	<i>Lincoln</i>	2400 Lynn st.
Margaret Clark	<i>Lincoln</i>	1941 F st.
Edwin Bingham Collins	<i>Lincoln</i>	West A st.
Paul Atwood Colson	<i>Fremont</i>	1327 O st.
Horatio Seymour Cooper	<i>Ligonier, Ind.</i>	Nebraska Hall,
Isabelle Cornell	<i>Omaha</i>	1828 F st.
David Washington Crabtree	<i>Victoria</i>	1335 H st.
Mary Ellen Faulkner	<i>Lincoln</i>	1617 Vine st.
Edgar Ferneau	<i>Auburn</i>	319 N. 11th st.
Annie Laura Funke	<i>Lincoln</i>	1021 D st.
Mrs. Charles H. Gere	<i>Lincoln</i>	Cor. D and 9th sts.
Nellie Grace Goshorn	<i>Lincoln</i>	1312 N st.
Lulu Maria Green	<i>Lincoln</i>	227 N. 12th st.
Grace Griffith	<i>Lincoln</i>	1448 L st.
Anna R. Hall	<i>Lincoln</i>	524 N. 16th st.
Camma Cornelia Hall	<i>Verdon</i>	500 N. 16th st.
Ruby Hastings	<i>Arcadia</i>	933 S. 9th st.
Rose Higgins	<i>Roseville, Ill.</i>	1020 Q st.
Emma Hannah Hillmon	<i>Wilsonville</i>	825 N. 15th st.
Carl Olmstead Howe	<i>Lincoln</i>	1048 S. 15th st.
Edna Hyatt	<i>Lincoln</i>	1336 M st.
Julia Maria Joy	<i>Odell</i>	1510 P st.
Helena Lau	<i>Lincoln</i>	1045 D st.
Jessie May Lau	<i>Lincoln</i>	Cor. Vine and 23d st.
Mrs. Henry E. Lewis	<i>Lincoln</i>	205 S. 27th st.
Emma Funke Little	<i>Lincoln</i>	1925 E st.
Lucinda Bills Loomis	<i>Lincoln</i>	1108 F st.
Oliver Morton Males	<i>Lincoln</i>	1827 L st.
Avis Belle Manley	<i>Lincoln</i>	1100 S. 11th st.
Ethel May Marsland	<i>Lincoln</i>	357 S. 28th st.
Ida Mathews	<i>Kiowa, Kans.</i>	1513 S. 10th st.
Bertha McMillan	<i>Lincoln</i>	1503 H st.
Randolph McNitt	<i>Red Cloud</i>	1328 P st.
Jacob Oppenheimer	<i>Lincoln</i>	1721 P st.

Laura Pfeiffer	<i>Wilber</i>	1830 L st.
Hadley Winfield Quaintance	<i>Cable, Ill.</i>	119 S. 10th st.
William Edward Riley	<i>Lincoln</i>	Cor. 43d and Randolph sts.
Frank Augustus Rockhold	<i>Wymore</i>	1346 S st.
Hattie Victoria Ruliffson	<i>University Place</i>	410 N. 12th st.
Katherine Saum	<i>Newton, Iowa</i>	1200 G st.
Nellie May Scott	<i>Tecumseh</i>	410 N. 12th st.
Lenhart Otho Shrader	<i>Logan</i>	1428 K st.
Miriam Starrett	<i>Lincoln</i>	1626 J st.
Marie L. Sundean	<i>Lincoln</i>	1501 Q st.
Georgia Talbot	<i>Syracuse</i>	923 S. 19th st.
Harriet Estelle Town	<i>Lincoln</i>	830 N. 25th st.
Clara Van Ness	<i>Sterling</i>	500 N. 16th st.
Clara Augusta Walsh	<i>Lincoln</i>	1336 J st.
Alice Earl Wing	<i>Lincoln</i>	2206 S. 14th st.
Bessie Russell Wing	<i>Lincoln</i>	2206 S. 14th st.
Josephine Weaver Winger	<i>Lincoln</i>	1248 J st.
Katherine B. Wolfe	<i>Lincoln</i>	1644 P st.
Gertrude Arden Yates	<i>Lincoln</i>	1520 U st.

SPECIAL STUDENTS, 59.

INDUSTRIAL COLLEGE.

FACULTY AND OTHER INSTRUCTORS.

- J. STERLING KINGSLEY, D. Sc., *Agriculture and Biology*, DEAN.
 HENRY E. HITCHCOCK, PH. D., *Mathematics*.
 GEORGE E. HOWARD, M. A., *History*.
 HUDSON H. NICHOLSON, M. A., *Chemistry*.
 LUCIUS A. SHERMAN, PH. D., *English Literature*.
 LEWIS E. HICKS, PH. D., *Geology*.
 CHARLES E. BESSEY, PH. D., *Botany*.
 AUGUST HJALMAR EDGREN, PH. D., *Modern Languages and Sanskrit*.
 CHARLES N. LITTLE, PH. D., *Civil Engineering*.
 RACHEL LLOYD, PH. D., *Analytical Chemistry*.
 DEWITT B. BRACE, PH. D., *Physics*.
 THOMAS W. GRIFFITH, U. S. A., *Military Science and Tactics*.
 CHARLES L. INGERSOLL, M. Sc. *Agriculture*.
 HOWARD W. CALDWELL, B. PH., *History*.
 EBENEZER W. HUNT, B. A., *Rhetoric and Oratory*.
 AMOS G. WARNER, PH. D., *Economic and Political Science*.
 HARRY K. WOLFE, PH. D., *Philosophy*.
 HORACE E. L. HORTON, *Agricultural Chemistry*.

- HAROLD N. ALLEN, B. Sc., *Physics*.
 T. MOREY HODGMAN, B. A., *Mathematics*.
 LAURENCE FOSSLER, M. A., *Modern Languages*.
 FREDERIC W. TAYLOR, *Horticulture*,
 SARAH WOOL MOORE, *History of Art*.
 HON. ROBERT W. FURNAS, *Forestry*.
 H. ELTON FULMER, M. A., *Chemistry*.
 LANGDON FROTHINGHAM, M. D. V., *Agriculture and Biology*.
 ALBERT F. WOODS, B. Sc., *Botany*.
 S. W. PERIN, *Foreman of the Station Farm*.

STUDENTS.

SENIORS.

Rosa Bouton	<i>Sabetha, Kans.</i>	1528 P st.
Edith Minerva Brace	<i>Lincoln</i>	1826 F st.
Lucy Cornelia Braun	<i>Sutton</i>	1228 Q st.
Amos Calvin Cope	<i>Lincoln</i>	Bond Hotel.
Clarence Conrad Fletcher	<i>Lincoln</i>	811 G st.
David Avery Haggard	<i>Lincoln</i>	1320 G st.
Hervey Bryan Hicks	<i>Lincoln</i>	1809 P st.
James Warren McCrosky	<i>Tecumseh</i>	Nebraska Hall.
Per Axel Rydberg	<i>Wahoo</i>	1446 Q st.
Guy Plummer Thurber	<i>Lincoln</i>	831 N. 14th st.
Albert Melville Troyer	<i>Dorchester</i>	1221 U st.

SENIORS, II.

JUNIORS.

James Barkley	<i>Lincoln</i>	730 N. 12th st.
William Ellsworth Brook	<i>Ashland</i>	1448 O st.
Theophil Brugger	<i>Belleue</i>	University Hall.
Charles DeLong Chandler	<i>Lincoln</i>	1710 D st.
Rupert Dinges	<i>Lincoln</i>	655 S. 18th st.
Charles Amidde Helvie	<i>Selma, Ind.</i>	1522 S st.
Paul Llewellyn Hibbard	<i>York</i>	1137 U st.
Frederick Courtland Kenyon	<i>Unadilla</i>	University.
Morgan McQuown Maghee	<i>Rawlins, Wyo.</i>	730 N. 12th st.
Hugo Emil Nelson	<i>Oakland</i>	72 Bond Hotel.
James Chester Porterfield	<i>Fullerton</i>	1200 T st.
Leroy Ellsworth Troyer	<i>Dorchester</i>	1221 U st.
Jacob Butler White	<i>University Place.</i>	
Jacob Vance Wolfe, Jr.	<i>Lincoln</i>	1646 P st.
Bruce C. Yates	<i>Lincoln</i>	1631 Q st.

JUNIORS, 15.

SOPHOMORES.

Juergen Albers	<i>Tecumseh</i>	522 N. 14th st.
Burt Bonnell	<i>Chicago, Ill.</i>	445 N. 13th st.
Christine Fossler	<i>Lincoln</i>	734 N. 9th st.
Mary Louise Fossler	<i>Lincoln</i>	734 N. 9th st.
Vesta Gray	<i>Fremont</i>	815 S. 13th st.
Fred Gund	<i>Wilber</i>	1346 S st.

Anna Howard	<i>Fremont</i>	815 S. 13th st.
Clyde Warren McCargar	<i>Lincoln</i>	631 N. 12th st.
Herbert Almon Senter	<i>Bancroft</i>	116 S. 11th st.
Clarence Aurelius Skinner	<i>Octavia</i>	1426 P st.
William Lester Stockton	<i>Lincoln</i>	1201 U st.

SOPHOMORES, II.

FRESHMEN.

Rolland Stanton Bulla	<i>St. Edwards</i>	86 Bond Hotel.
Harley Jones Butts	<i>Ashland</i>	1310 S st.
Pearle Camp	<i>Lincoln</i>	1614 M st.
Wm. Adelbert Brainard Carpenter	<i>Lincoln</i>	403 S. 25th st.
Augustine Gaylord Chapman	<i>Lincoln</i>	1230 G st.
Fred Clements	<i>Lincoln</i>	646 N. 13th st.
Estelle Emily Ducker	<i>Red Cloud</i>	Appelget Block.
William Lyon Ducker	<i>Red Cloud</i>	Appelget Block.
Frank Standfield Dunham	<i>Cozad</i>	435 N. 13th st.
Forest Johnson Durell	<i>Ashland</i>	78 Bond Hotel.
Frank DeWitt Eager	<i>Lincoln</i>	825 N. 16th st.
Mary Grace Edwards	<i>Lincoln</i>	2223 N st.
Nette Elizabeth Forehand	<i>Kearney</i>	346 N. 17th st.
Anna Fossler	<i>Lincoln</i>	734 N. 9th st.
Charles Eick Fritts	<i>Lincoln</i>	1419 N. 14th st.
Harry Sherman Ganson	<i>Lodge Pole</i>	825 N. 16th st.
George Edward Hall	<i>Verdon</i>	1446 Q st.
Edwin Pelton Hayward	<i>Nebraska City</i>	Lindell Hotel.
Robert Hiltner	<i>Lincoln</i>	1301 N st.
William Harris Larson	<i>Ulysses</i>	Burr Block.
Louise Lee	<i>Kearney</i>	346 N. 17th st.
Charles Anson Lyman	<i>Lincoln</i>	1119 H st.
George Malcolm	<i>Lincoln</i>	710 C st.
Clair French Metcalf	<i>Lincoln</i>	910 H st.
Leonidas Miller	<i>Grand Island</i>	1511 S st.
Edward Everett Nicholson	<i>Lincoln</i>	825 S. 31st st.
Arthur Pancoast	<i>Ashland</i>	Bond Hotel.
George Endres Payne	<i>Hastings</i>	4 State Block.
Henry Joseph Podlesak	<i>Milligan</i>	University Hall.
Alva Dayton Riegel	<i>Ashland</i>	1526 N st.
William Colfax Roberts	<i>Lincoln</i>	126 Burr Block.
Christian Rohwer	<i>De Soto</i>	825 N. 16th st.
Cora Francis Smith	<i>Lincoln</i>	1631 F st.

Lewis Gilmore Thayer	<i>Iola, Kans.</i>	1420 Vine st.
Edward Thomas	<i>Falls City</i>	510 N. 14th st.
Francis Fisher Tucker	<i>Lincoln</i>	2003 G st.

FRESHMEN, 36.

SPECIAL STUDENTS.

George Mercer Adams	<i>Omaha</i>	
Samuel Avery	<i>Lincoln</i>	1019 O st.
Isaac Madison Bentley	<i>Lincoln</i>	526 S. 28th st.
Ellen Judith Bruner	<i>West Point</i>	2314 S. 17th st.
Charles Harold Clarke	<i>Omaha</i>	1627 H st.
Cecil Clair Copeland	<i>Minden</i>	2408 Vine st.
Lee Wilson Edwards	<i>Lincoln</i>	2223 N st.
William Charitan Frampton	<i>Toledo, Iowa</i>	1519 O st.
Gertrude Hulda Frommholz	<i>Lonoke, Kans.</i>	1701 P st.
Parkison James Jewell	<i>Waverly</i>	803 S. 7th st.
Elmer Ellsworth Kepner	<i>Lincoln</i>	1506 O st.
Harvey Lewis Klock	<i>Lincoln</i>	1004 A st.
Stephen Patrick O'Hern	<i>DeLand, Ill.</i>	1310 S. st.
Lenore Perky, M. D.	<i>Lincoln</i>	236 S. 11th st.
William Austin Richmond	<i>Utica</i>	1137 U st.
Andrew Baskins Stephens	<i>Newport, Pa.</i>	1228 Q st.
Almon Tower	<i>Lincoln</i>	307 N. 24th st.

SPECIAL STUDENTS, 17.

LATIN SCHOOL.

INSTRUCTORS.

- JAMES T. LEES, PH. D., PRINCIPAL, *Latin and Greek.*
 HAROLD N. ALLEN, B. SC., *Physics.*
 CHARLES E. BESSEY, PH. D., *Botany.*
 HOWARD W. CALDWELL, B. PH., *History.*
 VERNON J. EMERY, B. A., *Latin.*
 H. ELTON FULMER, M. A., *Chemistry.*
 T. MOREY HODGMAN, B. A., *Mathematics.*
 EBENEZER W. HUNT, B. A., *English.*
 SARAH WOOL MOORE, *Drawing.*

STUDENTS.

SECOND YEAR.

Charles Alexander	<i>Red Oak, Iowa</i>	Windsor Hotel.
Mary Henderson Ames	<i>Lincoln</i>	1020 H st.
Edward Oliver Barr	<i>Holdrege</i>	Hotel Ideal.
Cynthia Ann Becker	<i>Burwell</i>	445 N. 13th st.
Henry John Beckman	<i>Malcolm</i>	1926 N st.
Charles Henry Blanchard	<i>Arlington</i>	78 Bond Hotel.
Frank Brown	<i>Talmage</i>	1201 U st.
Tremaine Milton Burrows	<i>Sydney, N. Y.</i>	820 N. 25th st.
Willa Cather	<i>Red Cloud</i>	1618 Washington st.
Mary Evaline Chappell	<i>Neligh</i>	30th and L sts.
Robert Lee Cheney	<i>Dakota City</i>	77 Bond Hotel.
Louise Anna Clark	<i>Lincoln</i>	1525 Q st.
Nellie May Clark	<i>Lincoln</i>	1525 Q st.
George Samuel Clason	<i>Lincoln</i>	935 C st.
Ulysses Grant Cornell	<i>Lincoln</i>	1801 N st.
George Albert Cullen	<i>Lincoln</i>	2005 S. 16th st.
John William Eagleson	<i>Craig</i>	N and 25th sts.
John Howe Farwell	<i>Lincoln</i>	1313 H st.

David Ferguson	<i>Talmage</i>	848 O st.
Susan Wilson Field	<i>Lincoln</i>	2410 Q st.
Mariel Clapham Gere	<i>Lincoln</i>	D and 9th st.
Nathaniel Marks Graham	<i>Clay Center</i>	1426 P st.
Gilman Adelbert Hackett	<i>Neligh</i>	24th and R sts.
Gilbert Hoke Hall	<i>Verdon</i>	1446 Q st.
Alice Cushman Hunter	<i>Lincoln</i>	1448 R st.
Walter David Hunter	<i>Lincoln</i>	1448 R st.
Jessie Belle Jury	<i>Lincoln</i>	2 McBride Block.
James Proctor Knott	<i>York</i>	Bond Hotel.
Jesse Freeman Kramer	<i>Lincoln</i>	831 J st.
Fred Bennett Langworthy	<i>Seward</i>	1327 O st.
Bertha Adella Law	<i>Lincoln</i>	Vine and 23d st.
Gilbert Newton Lewis	<i>Lincoln</i>	265 S. 27th st.
Mabel Elizabeth Lindley	<i>Lincoln</i>	1521 P st.
Josephine Lottridge	<i>Lincoln</i>	1218 T st.
Fred Birdette Lyon	<i>Lyons</i>	1229 S st.
William Smith McGintie	<i>Wilber</i>	1502 Q st.
Kate May Melick	<i>Davey</i>	1512 Vine st.
John Stuart Miller	<i>Garrison</i>	320 N. 11th st.
Grace Morgan	<i>Lincoln</i>	2147 S st.
Louis Clark Oberlies	<i>Lincoln</i>	256 S. 28th st.
Byron Pampel	<i>Centralia, Kans.</i>	243 N. 12th st.
Olivia Pound	<i>Lincoln</i>	1542 P st.
William Dickey Reed	<i>Lincoln</i>	2720 O st.
Walter Hampton Rhodes	<i>Hebron</i>	1425 S st.
Norman Selden Richards	<i>Bradshaw</i>	1425 S st.
Althea Blanche Roberts	<i>Rising</i>	1431 R st.
Evalena Pearl Rolofson	<i>Lincoln</i>	1134 N. 9th st.
Sarah Agnes Ryan	<i>Greenwood</i>	2816 Q st.
Thomas Gerald Ryan	<i>Greenwood</i>	2816 Q st.
Elizabeth Jane Sargent	<i>Lincoln</i>	C and 40th sts.
Lucius Whittlesy Sherman	<i>Lincoln</i>	245 S. 15th st.
Blanche Skidmore	<i>Lincoln</i>	655 N. 27th st.
Edmund Clements Strode	<i>Bernadotte, Ill.</i>	514 S. 16th st.
Clarence Edwin Tefft	<i>Avoca</i>	1327 O st.
George Leslie Thompson	<i>Wilber</i>	1426 P st.
George Lewis Town	<i>Kennard</i>	1830 N. 25th st.
Henry Conde Upton	<i>Lincoln</i>	2030 R st.
James Lincoln Wallace	<i>Almena, Kans.</i>	31 Latta Block.
Oreal Sidney Ward	<i>Lincoln</i>	821 J st.

Horace Greeley Whitmore	<i>Emerald</i>	2527 T st.
Mary Tilford Wolfe	<i>Lincoln</i>	1644 P st.

SECOND-YEAR STUDENTS, 61.

FIRST YEAR.

Billings Grinell Almy	<i>University Place.</i>	
John Edwin Almy	<i>University Place.</i>	
Frederick Edward Barnes	<i>Lincoln</i>	808 S. 11th st.
James Barry	<i>Greeley Center</i>	442 N. 12th st.
John Vawter Beachley	<i>Lincoln</i>	1246 K st.
Jacob Paul Becker	<i>Union</i>	Windsor Hotel.
William Edward Benjamin	<i>Cheyenne, Wyo.</i>	1026 F st.
Arthur Elwood Bennett	<i>Lincoln</i>	520 S. 25th st.
Maud Letitia Berkey	<i>Lincoln</i>	1125 U st.
John Justin Brown	<i>Lincoln</i>	A and 40th sts.
William Morley Cain	<i>Leigh</i>	418 N. 25th st.
William Robert Chapin	<i>Kirkwood, Ill.</i>	1132 H st.
Ella Chapman	<i>Beatrice</i>	1345 T st.
Abraham Grant Chappell	<i>Neligh</i>	L and 30th st.
William Best Clark	<i>Lincoln</i>	O and 33d sts.
Emory Clements	<i>Lyons</i>	1229 S st.
Carrie C. Coffin	<i>Lincoln</i>	30th and Q st.
John Emerson Cooley	<i>Clearwater</i>	320 N. 11th st.
Vernon Thompson Craig	<i>Craig</i>	2506 N st.
Clarence Eugene Cummings	<i>Centralia, Kans.</i>	1310 S st.
Elmer Elsworth Davidson	<i>Bradshaw</i>	1526 N st.
Walter Henry Dean	<i>Lincoln</i>	1450 O st.
William Arthur Deary	<i>Bloomington</i>	1511 S st.
Charles Hiram Doane	<i>Syracuse</i>	323 N. 13th st.
Birdena Doubt	<i>Lincoln</i>	2332 P st.
Harry Harding Everett	<i>Lincoln</i>	11 McBride Block.
Albert Henry Farnsworth	<i>Lincoln</i>	231 N. 12th st.
Guy Ferguson	<i>Saltillo</i>	1526 O st.
Orville Vinton Field	<i>Lincoln</i>	2410 Q st.
George Albert Flippin	<i>Henderson</i>	1012 O st.
William Davies Gibbon, Jr.	<i>Beemer</i>	92 Bond Hotel.
Robert Hamel Graham	<i>Clay Center</i>	1426 P st.
Frank Bowen Hadley	<i>Cedar Rapids</i>	1327 O st.
Edith Estelle Harman	<i>Lincoln</i>	2000 L st.
Hattie Hardin	<i>Lincoln</i>	346 N. 17th st.
Gordon Hayes	<i>Red Oak, Iowa</i>	825 G st.

Olive Hazlett	<i>Parnassus, Pa.</i>	1824 C st.
Allie Heed	<i>Wellfleet</i>	2612 Q st.
Charles Truman Hibbard	<i>York</i>	1137 U st.
Ward Hildreth	<i>Bloomington</i>	1511 S st.
Ada Minerva Hooper	<i>Lincoln</i>	2951 U st.
Mary Alzora Horne	<i>Bennett</i>	University Place.
Stella Irvine	<i>Lincoln</i>	1342 N st.
George William Johnson	<i>Washington</i>	1448 O st.
Henry Elijah Johnson	<i>Lincoln</i>	1208 O st.
Myron Johnson	<i>Dorchester</i>	1434 K st.
William Elwood Kirk	<i>Edgar</i>	1511 S st.
Arnold Pratt Libby	<i>Elk Creek</i>	1328 P st.
Nellie Lownes	<i>Lincoln</i>	30th and Q st.
James Alfred Lunn	<i>Lincoln</i>	1332 K st.
Clyde Wooster Manley	<i>Lincoln</i>	1100 S. 11th st.
Robert Hardy Manley	<i>Lincoln</i>	1100 S. 11th st.
Herbert Read Martin	<i>South Omaha</i>	1633 Q st.
Willard Mathews	<i>Callaway</i>	M and 10th st.
George William McBeath	<i>Dakota</i>	1414 S st.
Eddie Henry McLaughlin	<i>Lincoln</i>	2737 Pear st.
Onab McLaughlin	<i>Lincoln</i>	2737 Pear st.
Adam Herbison McMullen	<i>Wymore</i>	7 Webster Block.
Mary Barker McNeil	<i>Lincoln</i>	637 N. 14th st.
Frank James Morrow	<i>Sidney</i>	1414 O st.
James Walter Morrow	<i>Wilcox</i>	1511 S st.
Brady Gilbert Mosher	<i>Geneva</i>	418 N. 12th st.
Edward Luther Nettleton	<i>McCook</i>	1232 L st.
Abel Norton	<i>Berwyn</i>	1429 R st.
Luther Martin Overstreet	<i>Arborville</i>	1229 S st.
Charles Wescott Philpott	<i>Lincoln</i>	2229 N st.
Emilius Podlesak	<i>Milligan</i>	1137 R st.
Edward Youngs Porter	<i>Lincoln</i>	1211 N st.
Annie Elizabeth Prey	<i>Lincoln</i>	1948 G st.
Grace Isabelle Prey	<i>Lincoln</i>	1948 G st.
Bertha Belle Quaintance	<i>Cable, Ill.</i>	1437 S st.
Dell Frank Riddell	<i>Waverly</i>	1414 S st.
Mary Delia Riley	<i>Lincoln</i>	45th and Randolph sts.
Mae Rhodes	<i>Utica</i>	18th and Holmes sts.
Artimus Roberts	<i>Lincoln</i>	126 Burr Block.
Maud Esta Rose	<i>Lincoln</i>	Cor. 32d and P sts.
Annie Alice Ryan	<i>Greenwood</i>	2816 Q st.

Mattie Elvira Sargent	<i>Lincoln</i>	C and 40th sts.
Charles Frederick Schwarz	<i>Lincoln</i>	628 N. 11th st.
Victor Augustus Senter	<i>Bancroft</i>	13th and South sts.
Wallace Sinclair	<i>Bancroft</i>	345 N. 10th st.
Rose Sharpe	<i>Elk City</i>	729 R st.
Harry Arthur Sherman	<i>Sargent</i>	College Farm.
Maud Shlaudeman	<i>Decatur, Ill.</i>	511 N. 16th st.
James Ensley Shue	<i>Stella</i>	1137 U st.
William Francis Squire	<i>Fairbury</i>	Windsor Hotel.
Russell Flemming Stauffer	<i>Lincoln</i>	2540 Vine st.
Florence Stockton	<i>Lincoln</i>	1201 U st.
Willis Edward Talbot	<i>Broken Bow</i>	442 N. 12th st.
Edith Elinor Thompson	<i>Bear City, Ark.</i>	1926 R st.
Lillian Emma Trester	<i>Lincoln</i>	2635 Y st.
John Martin Van Burgh	<i>Hickman</i>	20th and Vine sts.
Ralph Emerson Viele	<i>Waverly</i>	327 S. 12th st.
Charles Vifquain	<i>Lincoln</i>	1449 S st.
Thomas West	<i>Lincoln</i>	1501 S st.
Louis Aurel Westermann	<i>Lincoln</i>	511 N. 16th st.
William Wilson, Jr.	<i>Lincoln</i>	47th and South sts.
Fannie Eliza Woods	<i>Lincoln</i>	2544 J st.
Alonzo Earnest Yont	<i>Brock</i>	229 N. 10th st.
Clare Young	<i>Lincoln</i>	2265 S. 14th st.

FIRST-YEAR STUDENTS, 100.

SPECIAL STUDENTS.

Alice Clio Atwater	<i>Viola, Ill.</i>	527 S. 11th st.
Carrie Starr Brown	<i>Red Cloud</i>	441 N. 10th st.
Eugene Wayland Brown	<i>Lincoln</i>	255 S. 27th st.
Mary Elizabeth Bryan	<i>Lincoln</i>	1625 D st.
Bertie Laura Clark	<i>Lincoln</i>	1941 F st.
Netta May Cornell	<i>Lincoln</i>	1801 N st.
Amy Donna Covert	<i>Lincoln</i>	2136 R st.
Emma Catherine Crull	<i>Lincoln</i>	843 S. 10th st.
Oscar Frederick Funke	<i>Lincoln</i>	1021 D st.
Fred Squire Henry	<i>Lincoln</i>	533 N. 27th st.
Loretta Kelley	<i>Lincoln</i>	1620 Vine st.
Lulu Fay Marshall	<i>Lincoln</i>	1320 J st.
Ebenezer Ellis Mockett	<i>Lincoln</i>	345 N. 16th st.
Ralph Earnest Oliver	<i>Odell</i>	601 N. 14th st.
Karl Randall	<i>Lincoln</i>	514 S. 13th st.

Oscar Theodore Ross
John Jacob Thomas
Donna Angeline Wilson
Warren Willis Woods

Wilber 1511 S st.
Lincoln 732 J st.
Nebraska City 323 N. 13th st.
Lincoln 2528 R st.

SPECIAL STUDENTS, 19.

SCHOOL OF FINE ARTS.

SARAH WOOL MOORE, *Art History, Painting and Drawing.*
 ERMINA D. COCHRAN MENZENDORF, M. A., *Piano and Voice.*
 GUSTAV C. MENZENDORF, *Violin, Harmony and Counterpoint.*

ART STUDENTS.

Charles Alexander	Drawing	<i>Red Oak, Iowa.</i>
Maysie Henderson Ames	Drawing	<i>Lincoln.</i>
Charlotte Huntington Andrus	Art History	<i>Lincoln.</i>
Alice Clio Atwater	Drawing	<i>Viola, Ill.</i>
Caroline Aura	Drawing	<i>Lincoln.</i>
Cynthia Ann Becker	Drawing	<i>Burwell.</i>
Henry John Beckman	Drawing	<i>Malcolm.</i>
Lucy A. Bessey	Art History	<i>Lincoln.</i>
Charles Henry Blanchard	Drawing	<i>Arlington.</i>
Daisy Bonnell	Drawing	<i>Lincoln.</i>
Ida Bonnell	Art History	<i>Lincoln.</i>
Florence Briscoe	Drawing	<i>Lincoln.</i>
Frank Brown	Drawing	<i>Talmage.</i>
Mary Burr	Drawing	<i>Lincoln.</i>
Ada Bertha Caldwell	Drawing	<i>Lincoln.</i>
Ella Chapman	Drawing	<i>Beatrice.</i>
Robert Lee Cheney	Drawing	<i>Dakota City.</i>
Louise Ann Clark	Drawing	<i>Lincoln.</i>
Lulu Lute Clark	Art History	<i>Lincoln.</i>
Margaret Clark	Drawing	<i>Lincoln.</i>
Nellie May Clark	Drawing	<i>Lincoln.</i>
Sarah Clark	Art History	<i>Lincoln.</i>
William Best Clark	Drawing	<i>Lincoln.</i>
Emory Clements	Drawing	<i>Lyons.</i>
Carrie Coffin	Drawing	<i>Lincoln.</i>
John Emerson Cooley	Drawing	<i>Clearwater.</i>
Lyman Beecher Cornell	Art History	<i>Lincoln.</i>
Maree Cornell	Drawing	<i>Lincoln.</i>

Netta May Cornell	Drawing	<i>Lincoln.</i>
Vernon Thompson Craig	Drawing	<i>Craig.</i>
Clarence Eugene Cummings,	Drawing	<i>Centralia, Kans.</i>
Fred Doolittle	Drawing	<i>Lincoln.</i>
John William Eagleson	Drawing	<i>Craig.</i>
Mary Grace Edwards	Drawing	<i>Lincoln.</i>
Jennie Faxon	Drawing	<i>Lincoln.</i>
Nette Elizabeth Forehand	Drawing	<i>Kearney.</i>
Christine Fossler	Drawing	<i>Lincoln.</i>
Mrs. Frank Fuller	Drawing	<i>Lincoln.</i>
Mariel Clapham Gere	Drawing	<i>Lincoln.</i>
Nellie Grace Goshorn	Drawing	<i>Lincoln.</i>
Mrs. A. G. Greenlee	Drawing	<i>Lincoln.</i>
Gilman Adelbert Hackett	Drawing	<i>Neligh.</i>
Frank Bowen Hadley	Drawing	<i>Cedar Rapids.</i>
Hattie Hardin	Drawing	<i>Lincoln.</i>
Emory Chase Hardy	Art History	<i>Lincoln.</i>
Alice Louisa Hawes	Persp. Art Hist. Drawing	<i>Lincoln.</i>
Rose Higgins	Drawing	<i>Roseville, Ill.</i>
Ward Hildreth	Drawing	<i>Bloomington.</i>
Gertrude Hill	Drawing	<i>Lincoln.</i>
Otis Hobbes	Drawing	<i>Lincoln.</i>
Ada Minerva Hooper	Drawing	<i>Lincoln.</i>
Walter David Hunter	Drawing	<i>Lincoln.</i>
Bertha Adella Law	Drawing	<i>Lincoln.</i>
Anna B. Lees	Drawing	<i>Lincoln.</i>
Edith Long	Drawing	<i>Lincoln.</i>
Nellie Lownes	Drawing	<i>Lincoln.</i>
Fred Birdette Lyon	Drawing	<i>Lyons.</i>
Mary Barker McNeil	Drawing	<i>Lincoln.</i>
Kate May Melick	Drawing	<i>Davey.</i>
Leonidas Miller	Drawing	<i>Grand Island.</i>
Lucy P. Moore	Art History, Drawing	<i>Troy, N. Y.</i>
James Walter Morrow	Drawing	<i>Sidney.</i>
Alice D. Orr	Drawing	<i>Lincoln.</i>
Louis Clark Oberlies	Drawing	<i>Lincoln.</i>
Byron Pampel	Drawing	<i>Centralia, Kans.</i>
Edward Youngs Porter	Drawing	<i>Lincoln.</i>
Walter Hampton Rhodes	Drawing	<i>Hebron.</i>
Mrs. L. C. Richards	Art History	<i>Lincoln.</i>
Alice Righter	Drawing	<i>Lincoln.</i>

Mary Delia Riley	Drawing	Lincoln.
Sarah Riley	Drawing	Lincoln.
William Edward Riley	Art History	Lincoln.
Althea Blanche Roberts	Drawing	Rising.
Laura Melle Roberts	Art History	Lincoln.
Anna Rogers	Art History	Lincoln.
Belle Rogers	Art History	Lincoln.
Sarah Agnes Ryan	Drawing	Greenwood.
Thomas Gerald Ryan	Drawing	Greenwood.
Elizabeth Jane Sargent	Drawing	Lincoln.
James Ensley Shue	Drawing	Stella.
Edmund Clements Strode	Drawing	Bernadotte, Ill.
Edith Taylor	Drawing, Art History	Lincoln.
Etty Thatcher	Drawing	Lincoln.
Edith Elinor Thompson	Drawing	Bear City, Ark.
George Leslie Thompson	Drawing	Wilber.
Mary Thompson	Drawing	Lincoln.
Addie A. Tucker	Drawing	Lincoln.
Clara VanNess	Drawing, Art History	Sterling.
Helen Wade	Drawing, Art History	Lincoln.
Amy E. West	Art History	Lincoln.
Marian Williams	Drawing	Cheyenne, Wyo.
Donna Angeline Wilson	Dwg. Ptg., Art Hist.	Nebraska City.
Mrs. A. G. Wolfenbarger	Drawing	Lincoln.
Mary Tilford Wolfe	Drawing	Lincoln.
Gertrude Arden Yates	Drawing	Lincoln.

ART STUDENTS, 95.

MUSIC STUDENTS.

Charles Alexander	Voice	Omaha.
Helen Arzilla Bain	Piano	Lincoln.
James Barry	Piano	Greeley Center.
Jessie Florence Bigelow	Piano	Ogden, Utah.
Anna Botsford	Piano	Lincoln.
Florence Botsford	Piano	Lincoln.
Mrs. Florence Botsford	Piano	Lincoln.
Horace Botsford	Piano	Lincoln.
Katie Botsford	Piano	Lincoln.
Herbert Miller Bowers	Piano	Lincoln.
Norman Guild Bowers	Voice	Lincoln.
*May Bradt	Violin	Beatrice.

Mary Elizabeth Bryan	Voice	<i>Lincoln.</i>
Grace Burr	Violin	<i>Lincoln.</i>
Helen Burr	Piano	<i>Lincoln.</i>
Elsie Bushnell	Piano	<i>Lincoln.</i>
Pearle Camp	Piano	<i>Lincoln.</i>
Ella Carter	Piano	<i>Hatfield, Mo.</i>
Ella V Chappell	Piano, Voice and Harmony	<i>Lincoln.</i>
Mary Evaline Chappell	Piano and Voice	<i>Neligh.</i>
Louise Anna Clark	Voice	<i>Lincoln.</i>
Nellie May Clark	Piano	<i>Lincoln.</i>
Daisy Cochran	Piano	<i>Lincoln.</i>
Hattie Cook	Piano	<i>Lincoln.</i>
*Wilber Criley	Violin	<i>Beatrice.</i>
*Louis D. Dean	Violin	<i>Ashland.</i>
*Nellie Dean	Piano	<i>Ashland.</i>
Zadia G. Ferguson	Piano, Voice and Har.	<i>Dorchester.</i>
*John W. Francis	Violin	<i>Beatrice.</i>
Elnora G. Gingery	Piano, Voice and Har.	<i>Dorchester.</i>
Vesta Grey	Piano	<i>Fremont.</i>
Thomas B. Hargus	Violin	
Luella P. Hartley	Voice	<i>Lincoln.</i>
Ruby Hastings	Piano	<i>Arcadia.</i>
*Charles Wesley Hershey	Violin	<i>Beatrice.</i>
George Holmes	Piano	<i>Lincoln.</i>
Anna Howard	Piano	<i>Fremont.</i>
Alice Ida Johnson	Voice	<i>Norfolk.</i>
James Jonas	Violin	<i>Lincoln.</i>
Katie Joyce	Piano	<i>Lincoln.</i>
*John Kees	Violin	<i>Beatrice.</i>
Derrick Norman Lehmer	Violin	<i>Ord.</i>
*Mabel Leonard	Violin	<i>Beatrice.</i>
Edith Lewis	Violin	<i>Lincoln.</i>
Mabel Elizabeth Lindley	Piano	<i>Lincoln.</i>
Ily E. Loder	Piano, Voice and Har.	<i>Waverly.</i>
Dena Loomis	Voice	<i>Lincoln.</i>
*John Malcolm	Violin	<i>Beatrice.</i>
Sadie Manatt	Violin	<i>Lincoln.</i>
*Duty von Mansfelde	Viola	<i>Ashland.</i>
*Johanna von Mansfelde	Violin	<i>Ashland.</i>
*Belle von Mansfelde	Violincello	<i>Ashland.</i>
Carrie McClurkin	Piano, Voice, Violin, Har.	<i>Wahoo.</i>

*Margaret McPhee	Violin	Beatrice.
Eva L. McReynolds	Piano	Ashland.
*Daisy Meredith	Piano	Ashland.
*George Meredith	Violin	Ashland.
Arthur Morrill	Piano	Lincoln.
Minnie Morrill	Piano	Lincoln.
*Chas. H. Obear	Violin	Beatrice.
Louise Pound	Piano and Sight Reading	Lincoln.
Olivia Pound	Voice	Lincoln.
*Cora Reed	Violin	Beatrice.
Daisy Reimers	Piano	Lincoln.
Walter Hampton Rhodes	Voice	Hebron.
*Jessie Robbins	Violin	Beatrice.
Hattie Victoria Ruliffson	Voice	University Place.
*Katie Sallee	Violin	Beatrice.
Katherine Saum	Piano	Newton, Iowa.
J. A. Schoonover	Violin	Lincoln.
*John Scott	Violin	Ashland.
Nellie May Scott	Piano, Voice	Tecumseh.
*George Shedd	Violin	Ashland.
Horace W. Sherman	Violin	Lincoln.
Maggie Singleton	Piano and Harmony	Odell.
Hattie S. Smawley	Piano	Lincoln.
Cora Frances Smith	Voice	Lincoln.
*Lottie Smith	Violin	Beatrice.
Bertha Swearingen	Piano	Elmwood.
Georgia Taylor	Piano	Wymore.
Almon Tower	Voice	Lincoln.
Leroy Ellsworth Troyer	Voice	Dorchester.
Lillian Upham	Piano	Lincoln.
*Fred E. Warren	Violin	Beatrice.
Bianca Weber	Piano and Violin	Lincoln.
*Hattie Webster	Violin	Ashland.
*Charles Wheelock	Violin	Beatrice.
*Henry Wiebe	Violin	Beatrice.
Jennie A. Williamson	Voice	Lincoln.
Katharine M. Williston	Piano	Tacoma, Washington.
*Sylvia Woodbury	Violin	Ashland.
Halsey Yates	Piano	Lincoln.

MUSIC STUDENTS, 92.

* Non-resident.

UNIVERSITY ORCHESTRA.

GUSTAV C. MENZENDORF, Conductor and 1st Violin.
ERMINA D COCHRAN MENZENDORF, Pianist.
DERRICK N. LEHMER, 2d Violin.
E. G. ABEL, 2d Violin.
WILLIAM E. SHAW, Viola.
DELOSS SMITH, Double Bass.
CHARLES KEARNS, Flute.
JAMES JONAS, Clarinet.
JAMES J. SAYER, 1st Cornet.
J. M. BELL, 2d Cornet.
OTTO G. MILLER, Trombone.

UNIVERSITY CHORUS.

SOPRANOS.

CLIO ATWATER
LENA BARBER
MAY D. T. BARRIS
ELLA V. CHAPPELL
ELNORA G. GINGERY
STELLA D. IRVINE
ALICE I. JOHNSON
DENA LOOMIS
OLIVIA POUND
HATTIE V. RULIFFSON
MAGGIE SINGLETON

TENORS.

CHARLES ALEXANDER
NORMAN B. BARR
DERRICK N. LEHMER
JAMES J. SAYER
ALBERT M. TROYER
LEROY E. TROYER
GEORGE H. WHALEY

ALTOS.

MAUD L. BERKEY
LIZZIE BONNELL
IDA BONNELL
LOUISE CLARK
ROSE E. COLLINS
ILY E. LODER
GRACE MORGAN
LAURA PFEIFFER

BASSES.

JOSEPH P. BEARDSLEY
CHARLES DOANE
C. C. FLETCHER
THOMAS HALL
GEORGE E. HALL
F. D. HYDE
F. LARSON
J. B. McDONALD
L. C. OBERLIES
PAUL PIZEY
J. C. PORTERFIELD
HARRY A. REESE
A. ROBERTSON
GUY P. THURBER

MILITARY DEPARTMENT.

FIRST LIEUTENANT, T. W. GRIFFITH, 18th U. S. Inf'ty, *Commandant.*

BATTALION ORGANIZATION.

STAFF.

G. P. THURBER, 1st Lieutenant and Adjutant.

F. D. HYDE, Sergeant-Major.

H. E. NELSON, Quartermaster Sergeant.

BAND.

DAVID F. EASTERDAY, Instructor, Eb Cornet.

J. B. McDONALD, Drum Major.

JAMES A. LUNN, Piccolo.

WM. E. BROOK, Eb Clarinet.

WARD HILDRETH, Solo Bb Cornet.

CHARLES ALEXANDER, 1st Bb Cornet.

WILLIAM S. MCGINTIE, 2d Bb Cornet.

JOHN LOVE, 3d Bb Cornet.

ARTHUR PANCOST, Solo Alto.

RUSSELL F. STAUFFER, 1st Alto.

GEORGE E. HALL, 2d Alto.

PAUL PIZEY, 3d Alto.

NORMAN S. RICHARDS, 1st Tenor.

HARRISON S. LORD, 2d Tenor.

WILLARD MATHEWS, Trombone.

ABEL NORTON, Bb Bass.

JAMES W. MORROW, Tuba.

LOUIS C. OBERLIES, Tuba.

JOHN C. GRAHAM, Snare Drum.

WILLIS E. TALBOT, Bass Drum and Cymbals.

OFFICERS.

Co. A.

CAPT. C. C. FLETCHER.
1st LIEUT. A. C. COPE.

Co. B.

CAPT. J. W. McCROSKEY.
1st LIEUT. C. D. SCHELL.

Co. C.

CAPT. D. A. HAGGARD.
1st LIEUT. A. A. FAUROT.
2d LIEUT. P. L. HIBBARD.

Co. D.

CAPT. H. A. REESE.
1st LIEUT. W. T. BROWN.

SERGEANTS.

Co. A.

1. G. L. SHELDON.
2. L. E. TROYER.
3. PAUL PIZEY.
4. W. H. SAWYER.

Co. B.

1. H. J. EDMISTON.
2. H. A. SENTER.
3. T. BRUGGER.
4. F. D. EAGER.

Co. C.

1. C. D. CHANDLER.
2. M. M. MAHGEE.
3. R. E. DINGES.
4. G. H. MAHGEE.

Co. D.

1. J. A. BARKLEY.
2. E. E. NICHOLSON.
3. E. M. POLLARD.
4. F. GUND.

CORPORALS.

Co. A.

1. W. A. RICHMOND.
 2. J. P. WILLIAMS.
 3. C. E. TEFFT.
 4. C. H. WOODS.
- 20 Privates.

Co. B.

1. F. F. TUCKER.
 2. J. P. BEARDSLEY.
 3. C. W. McCARGER.
 4. J. H. HOOPER.
- 21 Privates.

Co. C.

1. H. J. PODELSAK.
 2. E. P. HAYWARD.
 3. C. F. STROMAN.
 4. G. H. WHALEY.
- 21 Privates,

Co. D.

1. R. S. BULLA.
 2. C. A. LYMAN.
 3. H. G. BARBER.
 4. F. P. McFARLAND.
- 20 Privates,

ARTILLERY.

UNIVERSITY BATTERY.

1ST LIEUT. T. W. GRIFFITH, 18th U. S. Infantry, COMMANDING.

Detachment "A."

SERGEANT G. L. SHELDON,
CHIEF OF SECTION.

W. A. RICHMOND, GUNNER.
7 CANNONEERS.

Detachment "C."

SERGEANT H. J. PODLESAK,
CHIEF OF SECTION.

R. E. DINGES, GUNNER.
7 CANNONEERS.

Detachment "B."

SERGEANT G. P. THURBER,
CHIEF OF SECTION.

H. A. SENTER, GUNNER.
7 CANNONEERS.

Detachment "D."

SERGEANT W. T. BROWN,
CHIEF OF SECTION.

J. A. BARKLEY, GUNNER.
7 CANNONEERS.

THE AGRICULTURAL EXPERIMENT STATION OF
NEBRASKA.

(Established in connection with the Industrial College, by an act of
Congress, approved March 2, 1887.)

GOVERNING BOARD.

THE REGENTS OF THE UNIVERSITY.

EXECUTIVE COMMITTEE.

CHARLES H. GERE. LEAVITT BURNHAM. HUDSON H. NICHOLSON.

VISITING COMMITTEE.

R. W. FURNAS, Brownville, }
W. R. ROBERTSON, Madison, } Agricultural Society.
G. J. CARPENTER, Fairbury..... Horticultural Society.

STATION OFFICERS.

HUDSON H. NICHOLSON, *Director*.
J. STUART DALES, *Treasurer*.

WORKING STAFF.

HUDSON H. NICHOLSON, M. A., *Chemist*.
RACHEL LLOYD, PH. D., *Assistant Chemist*.
DEWITT B. BRACE, PH. D., *Physicist*.
HAROLD N. ALLEN, B. Sc., *Assistant Physicist*.
LEWIS E. HICKS, PH. D., *Geologist*.
LAWRENCE BNUNER, *Entomologist*.
CHARLES E. BESSEY, PH. D., *Botanist*.
J. S. KINGSLEY, D. Sc., *Agriculturist*.
H. E. L. HORTON, *Assistant Chemist*.
S. W. PERIN, *Foreman of the Farm*.

SUMMARY OF STUDENTS.

GRADUATES.....	28
UNDERGRADUATES.	
ACADEMIC COLLEGE—	
Seniors.....	21
Juniors.....	21
Sophomores.....	37
Freshmen.....	37
Specials.....	59—174
INDUSTRIAL COLLEGE—	
Seniors.....	11
Juniors.....	15
Sophomores.....	11
Freshmen.....	36
Specials.....	17—90
LATIN SCHOOL—	
Second Year.....	61
First Year.....	100
Specials.....	19—180
SCHOOL OF THE FINE ARTS—	
Art Students.....	95
Music Students.....	92—187
Aggregate enrollment.....	660
Repeated.....	90
Total of unrepeated names.....	570

THE COLLEGES.

The University of Nebraska consists at present of two undergraduate Departments or Colleges, as follows :

The ACADEMIC COLLEGE (*"The College of Literature, Science and the Arts"*).

The INDUSTRIAL COLLEGE.

There is in operation, in connection with these Colleges, a *Latin School*. Preparatory instruction is here provided for students denied the opportunity in the schools of their own neighborhood.

An inchoate *School of Graduate Instruction* is open to graduates of these and other colleges.

There is also a *School of Art and Music*, in which, pending the opening of the COLLEGE OF THE FINE ARTS, instruction is given in Instrumental and Vocal Music, and in Drawing, Painting, and the History of Art.

REQUIREMENTS FOR ADMISSION.

ADMISSION TO THE FRESHMAN CLASS.

All candidates for admission to the Freshman Class in any Course (except those holding certificates of graduation from the High Schools named below) will be examined in the following subjects:

English.—English grammar, with Bain's "Higher English Grammar" as a basis. Candidates must be thoroughly proficient in spelling, punctuation, and capitalization. Each candidate will also be required to write an essay, not to exceed 500 words, on any one of the following subjects that the examiner may select: 1. The Story of Viola ("Twelfth Night"); 2. The Character of Primrose ("Vicar of Wakefield"); 3. The Story of Mark Tapley ("Martin Chuzzlewit"); 4. The Circumstances that gave rise to Magna Charta.

Geography.

Mathematics.—Arithmetic; Higher Algebra to Undetermined Coefficients; Plane and Rectilinear Solid Geometry.

History.—Barnes's General History, or Swinton's Outlines.

Latin.—Allen and Greenough's, or Harkness's Grammar; Cæsar, three books; Cicero, five orations; Allen's Latin Composition, thirty lessons. (The Roman pronunciation should be used exclusively.)

Applicants for admission to the CLASSICAL COURSE will be further examined in the following text-books:

Greek.—Goodwin's Greek Grammar; White's Lessons, to Syntax; Xenophon's Anabasis, through four chapters.

But applicants for admission to the SCIENTIFIC, LITERARY, ENGINEERING, AND AGRICULTURAL COURSES, will prepare for examination in the following subjects, *instead of Greek*:

Chemistry.—Such knowledge of Elementary Chemistry as may be obtained by a year's study of Avery's, Shepard's, or Remsen's Elements of Chemistry, with laboratory practice.

Physics.—Such knowledge of Elementary Physics as may be acquired by thorough study of Gage's Elements of Physics, or an equivalent.

Botany.—General Botany, including the principal characters of the great divisions of the vegetable kingdom, the structure, analysis and identification of flowering plants (Gray's Lessons and Manual), and collection of one hundred plants in herbarium.

ENTRANCE EXAMINATIONS.

The first examinations of candidates for the Freshman Class, or for advanced standing, are held on Thursday and Friday immediately after Commencement, beginning at 9 A. M. Examinations will also be held on Tuesday and Wednesday, at the opening of the Fall term. Attendance is required in all cases at the opening of the examinations.

ADMISSION BY DIPLOMA.

Candidates holding diplomas from the High Schools of *Alma, Ashland, Auburn, Beatrice, Crete, Fremont, Grand Island, Hastings, Kearney, Lincoln, Nebraska City, North Platte, Odell, Ord, Plattsmouth, Tecumseh, and Ulysses* showing graduation from courses which include the preparatory studies given above will be admitted to the Freshman Class without examination.

ADVANCED STANDING.

All candidates for advanced standing will be examined, in addition to the preparatory subjects enumerated above, in the studies already pursued by the class which they wish to enter.

ADMISSION TO THE LATIN SCHOOL.

Candidates for admission to the First Year Class of the Latin School will be examined in *English Grammar, Arithmetic* (fractions, denominate numbers, percentage and its applications, analysis, and proportion), *Geography*, and *History of the United States*.

Further statements as to examination and entrance to the Second Year Class are given under the head of the "Latin School" upon a subsequent page.

SPECIAL STUDENTS.

Persons over twenty-one years of age, not regularly admitted to the Freshman Class, are sometimes allowed by consent of the Faculty to select all their studies from the College classes. Such students receive no degree, but are entitled to a certificate showing the studies pursued with credit.

Candidates for a degree, at the discretion of the Faculty may take less than the prescribed number of hours each term, and thus extend their course over a greater number of years.

UNDERGRADUATE INSTRUCTION.

THE ACADEMIC COLLEGE.

(*College of Literature, Science, and the Arts.*)

In this College are offered Two Courses of Study, designated as the CLASSICAL and the LITERARY, leading to the degrees of B. A. and B. L., respectively.

CLASSICAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

Latin.—Vergil: *Æneid*, books I. and II. Prosody. (Four hours per week.)

Greek.—Xenophon: *Anabasis*, books II. and III. Syntax. Greek Prose Composition. (Five hours.)

Mathematics I.—Spherical Geometry and Trigonometry. Exercises in original demonstration. (Five hours.)

Rhetoric.—Lectures. Practical exercises in Criticism and Composition. (Two hours.)

SECOND TERM.

Latin.—Vergil: *Æneid*, book VI.; and six *Eclogues*. Prosody. Review of Syntax of Nouns by Grammar and Analytical Charts. (Five hours.)

Greek.—Xenophon: *Memorabilia*. Syntax. Greek Composition. (Four hours.)

Mathematics II.—Trigonometry, and Higher Algebra. Original demonstrations. (Five hours.)

Rhetoric.—Lectures. Practical exercises in Criticism and Composition, continued. Themes and Studies in Style. (Two hours.)

THIRD TERM.

Latin.—Cicero: De Senectute. Review of the Syntax of Verbs by Grammar and Analytical Charts. (Four hours.)

Greek.—Lysias: one Oration. Syntax. Greek Composition finished. (Five hours.)

Mathematics III.—Conic Sections. Original demonstrations. (Five hours.)

Rhetoric.—Argumentative Themes: Studies in Oratory. (Two hours.)

SOPHOMORE YEAR.

FIRST TERM.

Latin.—Livy: book XXI., with Quintus Curtius at sight. (Five hours.)

Greek.—Homer: Iliad, books I. and VI. (Four hours.)

German.—Joyne's Grammar and Reading. (Five hours.)

Chemistry.—(Two hours.)

Rhetoric.—One Essay on an Assigned Subject.

SECOND TERM.

Latin.—Livy: book XXII. Horace: Selected Odes. Prosody. (Four hours.)

Greek.—Thucydides: book VII. (Five hours.)

German.—Joyne's Grammar and Reading. (Five hours.)

Chemistry.—(Two hours.)

Rhetoric.—One Essay on an Assigned Subject.

THIRD TERM.

Latin.—Horace: Selected Odes, Satires and Epistles. Prosody. (Five hours.)

Greek.—Plato: Apology and Crito. (Four hours.)

German.—Joyne's Grammar and Reading of Classical Authors. (Five hours.)

Chemistry.—(Two hours.)

Rhetoric.—One Essay on an Assigned Subject.

JUNIOR YEAR.

FIRST TERM.

Latin.—Horace: *Ars Poetica*. Plautus: *Captivi*; Lectures on Roman Meters. (Three hours.)

Greek.—Sophocles: *Antigone*. Studies and Essays on the Greek drama. (Three hours.)

German.—Reading of Select Authors. (Four hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Science.—(Two hours.)

Electives.—(Four hours.)

SECOND TERM.

Latin.—Terence: *Adelphi*; Lectures on Roman Meters. (Three hours.)

Greek.—Demosthenes: *De Corona*; Studies and Essays on the Greek Orators. (Three hours.)

German.—Reading of Select Authors. (Four hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Science.—(Two hours.)

Electives.—(Four hours.)

THIRD TERM.

Latin.—Tacitus: *Germania* and *Agricola*. Lectures on Roman Literature and Art. (Three hours.)

Greek.—Plato: *Phædo*. (Three hours.)

German.—Reading of Classical Authors. (Four hours.)

Rhetoric.—One Oration, to be read before the class, with class criticism.

Science.—(Two hours.)

Electives.—(Four hours.)

SENIOR YEAR.

FIRST TERM.

Political Economy.—General study of principles, with some text, as Ely, Andrews or Walker; lectures and reports by students on assigned topics. (Three hours.)

Psychology.—General study of the subject, following Ladd, Wundt, and Bain; special reading in periodicals and monographs. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Ten hours.)

SECOND TERM.

Political Economy.—A more thorough study of selected topics, with special reference to practical applications. (Three hours.)

Formal Logic, or Psychology.—(Three hours.)

Rhetoric.—One Oration.

Electives.—(Ten hours.)

THIRD TERM.

Political Science.—Students may take work in Taxation, Constitutional Law, International Law, or Charities and Corrections. (Three hours.)

Ethics.—Martineau's Ethical Theory; Sidgwick's History and Methods of Ethics; special readings in Stephen, Fowler, Green, Paulsen, Spencer, and other writers. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Ten hours.)

LITERARY COURSE.

FRESHMAN YEAR.

FIRST TERM.

Mathematics I.—Spherical Geometry and Trigonometry. Original demonstrations. (Five hours.)

Rhetoric.—Lectures. Practical Exercises in Criticism and Composition. (Two hours.)

German.—Joyne's Grammar and Reading. (Five hours.)

History.—Ancient History: Cox's Greeks and Persians and Athenian Empire. Lectures and blackboard analyses on the Constitutional History of Athens and Sparta. (Four hours.)

SECOND TERM.

Mathematics II.—Trigonometry and Higher Algebra. (Five hours.)

Rhetoric.—Lectures. Practical Exercises in Criticism and Composition, continued. Themes and Studies in Style. (Two hours.)

German.—Joyne's Grammar and Reading. (Five hours.)

History.—Ancient History: Ihne's Early Rome; Smith's Rome and Carthage; special analysis of Roman Institutions: the Comitia, Magistracies, Collegia, Ranks, Classes, etc. (Four hours.)

THIRD TERM.

Mathematics III.—Conic Sections. Original demonstrations. (Five hours.)

Rhetoric.—Argumentative Themes; Studies in Oratory. (Two hours.)

German.—Joyne's Grammar and Reading of Select Authors. (Five hours.)

History.—Ancient History: Beesley's The Gracchi, Marius, and Sulla; Merivale's Triumvirates. Blackboard exercises on political institutions, continued. Theme or Lecture by each student. (Four hours.)

SOPHOMORE YEAR.

FIRST TERM.

German.—Reading of Select Authors. (Four hours.)

French.—Edgren's Grammar: French Readings. (Four hours.)

Anglo-Saxon.—Siever's Grammar, and Sweet's Reader; Cædmon's Exodus; Beowulf begun. (Four hours.)

Rhetoric.—One Essay on an Assigned Subject.

History.—Capes's Early Empire and Age of the Antonines; Arnold's Roman Provincial Administration. Further study of the Roman Constitution, with particular attention to the Civil and Military Organization under Diocletian and Constantine. One Theme. (Four hours.)

SECOND TERM.

German.—Reading of Classical Authors. (Four hours.)

French.—Edgren's Grammar: French Readings. (Four hours.)

Anglo-Saxon and Early English.—Beowulf, 2,200 lines. Mätzner's Altenglische Sprachproben. (Four hours.)

Rhetoric.—One Essay on an Assigned Subject.

History.—The Middle Ages; Studies in Hodgkin's Italy and Her Invaders, Church's Beginning of the Middle Ages, Gibbon's Decline and Fall, Hallam's Middle Ages, Cox's Crusades, covering the period from Constantine to the Crusades. Special topics: The Barbarian Invasion; Charles the Great; Theory of the Holy Roman Empire; Rise of the Papal Power. (Four hours.)

THIRD TERM.

German.—Reading of Select Authors. (Four hours.)

French.—Edgren's Grammar. Reading of Select Authors. (Four hours.)

Early English.—Mätzner's Altenglische Sprachproben; Lounsbury's History of the English Language; special Grammatical Analyses of Early English Authors. (Four hours.)

Rhetoric.—One Essay on an Assigned Subject.

History.—Middle Ages, continued. Special topics: Philip the Fair; The Hundred Years' War; Louis XI. and Charles the Bold; Analysis of Feudal Institutions. References: Guizot's History of Civilization; Kitchin's, Guizot's, Martin's and Michelet's histories of France. Hallam's Middle Ages; Secretan's Feudalite; Warburton's Edward III. One Theme for the last two terms of the year. (Four hours.)

JUNIOR YEAR.

FIRST TERM.

French.—Reading of Select Authors. (Three hours.)

English Literature.—General survey of the subject: English social and literary history from Piers Plowman to Shakespeare, on the basis of Morley's First Sketch; the influence of Italy and the Universities; the beginnings of Popular Literature; special study of Chaucer, Spenser, and Shakespeare. (Three hours.)

History.—Seebohm's Era of the Protestant Revolution, and Gardiner's Thirty Years' War. Special library work on topics connected with these eras. One Theme or lecture from each student on some topic assigned (Three hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Electives.—(Six hours.)

SECOND TERM.

French.—Reading of Select Authors. (Three hours.)

English Literature.—General survey, continued: Readings in the Dramatists from Shakespeare to Shirley; the Classical Movement from Cowley to Johnson; Growth of Popular Literature; special study of Milton, Pope, Thomson, and the Ballads. (Three hours.)

History.—Gardiner's Puritan Revolution. Special Topics: Petition of Right; Cromwell, Laud, and Strafford; Religious Legislation in the Reigns of Charles II. and James II.; Revolution of 1688. One Theme or Lecture during this (or following) Term. (Three hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Electives.—(Six hours.)

THIRD TERM.

Italian.—Grandgent's Italian Grammar; Reading. (Three hours.)

English Literature.—General survey, continued to living writers: Study of the Romantic, Nature, and Life Schools; Triumph of the People's Literature; Progress of English Prose; Lectures on American Literature; special study of Keats, Shelley, Byron, Wordsworth, and Tennyson. (Three hours.)

History.—Morris's Age of Anne: Library work with special reference to moral and social conditions; the political bearings of the literature, the Sacheverell trial, and the union of England and Scotland. (Three hours.)

Rhetoric.—One Oration, to be read before the class, with class criticism.

Electives.—(Six hours.)

SENIOR YEAR.

FIRST TERM.

Political Economy.—General study of principles, with some text, as Ely, Andrews, or Walker; lectures and reports by students on assigned topics. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Thirteen hours.)

Thesis.—Out of the above thirteen elective hours, three may be given, if the student so elect, to the investigation of some subject which shall be thoroughly and elaborately discussed in a graduation thesis.

SECOND TERM.

Political Economy.—A more thorough study of selected topics, with special reference to practical applications. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Thirteen hours.)

Thesis.—As in First Term.

THIRD TERM.

Political Science.—Students may take work in Taxation, Constitutional Law, International Law, or Charities and Corrections. (Three hours.)

Rhetoric.—One Oration.

Electives.—(Thirteen hours.)

Thesis.—As in First and Second Terms.

ELECTIVE COURSE IN PEDAGOGICS.

To accommodate students desiring to devote special attention to Pedagogics, a modification of the regular courses is proposed as given below. These studies may be substituted for those of the Junior and Senior years, without affecting the degree. Graduates who complete this course will receive the certificate of the Department of Pedagogics in addition to the regular diploma.

JUNIOR YEAR.

General Psychology.—First and second terms, three hours.

Ethics.—Third term, three hours.

Political History of the Nineteenth Century.—First term, three hours.

Constitutional Law.—Third term, three hours.

Logic.—Second term, three hours.

Electives.—During year, ten hours.

SENIOR YEAR.

Experimental Psychology.—During year, two hours.

History, Theories, and Methods of Education.—During year, two hours.

Political Economy.—First and Second terms, three hours.

Sociology, or Anthropology.—Third term, three hours.

Electives.—During year, nine hours.

THE INDUSTRIAL COLLEGE.

The purpose and scope of this College are defined by the Act of Congress providing for its endowment, which declares that in it "the leading object shall be, without excluding other Scientific and Classical studies, and including Military Tactics, to teach such branches of learning as are related to Agriculture and the Mechanic Arts, in such manner as the Legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Accordingly great prominence is given to the natural and physical sciences in the Scientific Course, and to their applications in the special elective courses, and the Course in Civil Engineering. Two lines of Agricultural instruction (chemical and biological), and one in Applied Electricity, are offered.

The degrees conferred in this College are Bachelor of Science (B. Sc.), and Bachelor of Civil Engineering (B. C. E.)

GENERAL SCIENTIFIC COURSE.

FRESHMAN YEAR.

- Mathematics* I. II. III.—(Five hours.)
German I.—Grammar and Reader.—(Five hours.)
Rhetoric I.—Exercises, Theme, etc.—(Two hours.)
Chemistry I.—Metallic Elements.—(Two hours.)
Physics I.—(Two hours.)

SOPHOMORE YEAR.

- French* III.—Grammar and Reader.—(Four hours.)
Rhetoric II.—Advanced Course.—(Two hours.)

- German* II.—Readings from Authors.—(Four hours.)
Chemistry II. III.—(Three hours.)
Physics II.—(Two hours.)

JUNIOR YEAR.

- Geology* II.—(Three hours.)
Zoology I.—(Four hours.)
Botany I. II.—(Two hours.)
French VI.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(Two Essays and one Oration.)
Electives.—(Two hours.)

SENIOR YEAR.

- English Literature* IV.—(Three hours.)
Political Science I. II.—(Three hours); *or*
Philosophy I. II. III.—(Three hours.)
Geology VI. VII.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(One Oration each term.)
Electives.—(Six hours.)

ELECTIVE COURSES IN SCIENCES.

In order to accommodate students desiring to give especial attention to particular subjects, the following elective courses are offered :

A.—ELECTRICAL COURSE.*

FRESHMAN YEAR.

Identical with the General Course.

SOPHOMORE YEAR.

Analytical Geometry and Calculus.—(Six hours.)

*Students entering this course may offer an equivalent in French or German in place of Latin.

French III.—(Four hours)
Graphics.—(Two hours.)
Chemistry II. III.—(Three hours.)
Physics II.—(Two hours.)
Rhetoric.—One Essay each term on an assigned Subject.

JUNIOR YEAR.

Mathematical Theory of Electricity and Magnetism.—(Four hours.)
Physics III.—(Three hours)
Descriptive Geometry. (Two hours.)
English Literature IV.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—Two Essays and one Oration.
Electives.—(Three hours.)

SENIOR YEAR.

Applied Electricity VII.—(Five hours.)
Thesis.—(Five hours.)
Political Science I. II.—(Three hours); *or*
Philosophy I. II. III.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—One Oration each term.
Electives.—(Three hours.)

B.—CHEMISTRY.

Freshman and Sophomore years, identical with General Course.

JUNIOR YEAR.

Chemistry IV. V. VI.—(Eight hours.)
English Literature IV.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(Two Essays and one Oration.)
Electives.—(Four hours.)

SENIOR YEAR.

Chemistry VII. XI.—(Three Hours.)

Chemistry XIII., or Thesis.—(Five Hours.)

Political Science I. II.—(Three hours); *or*

Philosophy I. II. III.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—One Oration each term.

Electives.—(Four hours.)

C.—AGRICULTURAL CHEMISTRY.

Freshman and Sophomore years, identical with General Course

JUNIOR YEAR.

Chemistry XII V. VI.—(Eight hours.)

English Literature IV.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—(Two Essays and one Oration.)

Electives.—(Four hours.)

SENIOR YEAR.

Chemistry XIII. XI.—(Three hours.)

Chemistry XIV., or Thesis.—(Five hours.)

Political Science I. II.—(Three hours); *or*

Philosophy I. II. III.—(Three hours.)

Military Science.—(One hour.)

Rhetoric.—(One Oration each term.)

Electives.—(Four hours.)

D.—GEOLOGY.

Freshman year, identical with General Course.

Sophomore year, students take Geology I, instead of Physics II. otherwise as in General Course.

JUNIOR YEAR.

Geology II. III. IV. V.—(Six hours.)

Zoology I.—(Four hours.)

Botany I. II.—(Two hours.)

Military Science.—(One hour.)

French.—(Three hours.)

SENIOR YEAR.

Geology VI. VII. VIII.—(Six hours.)
Political Science I. II.—(Three hours); *or*
Philosophy I. II. III.—(Three hours.)
English Literature IV.—(Three hours.)
Military Science —(One hour.)
Electives.—(Three hours.)

E.—BOTANY.

FRESHMAN YEAR.

Students must take Botany I. and II. instead of Physics I., otherwise as in General Course.

SOPHOMORE YEAR.

Students must take Botany III., and Zoology I., instead of Physics II., and Chemistry II. and III., otherwise as in General Course.

JUNIOR YEAR.

Botany IV. V. VI. or VII.—(Six hours.)
Geology II.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(Two Essays and one Oration.)
Electives.—(Six hours.)

SENIOR YEAR.

Botany IV. V. VI. or VII. (including Thesis).—(Nine hours.)
Rhetoric.—(One Oration each term.)
Military Science.—(One hour.)
Electives.—(Six hours.)

F.—ZOOLOGY.

FRESHMAN YEAR.

Students must take Botany I. and II. instead of Physics I., otherwise as in General Course.

SOPHOMORE YEAR.

Students must take Zoology I. and Physiology, instead of Chemistry and Physics, otherwise as in General Course.

JUNIOR YEAR.

- Zoology II. III.—(Six hours.)
 Geology II.—(Three hours.)
 Military Science.—(One hour.)
 English Literature IV.—(Three hours.)
 Rhetoric.—(Two Essays and one Oration.)
 French IV.—(Three hours.)

SENIOR YEAR.

- Zoology V. VII.—(including Thesis).—(Nine hours.)
 Political Science I. II.—(Three hours); *or*
 Philosophy I. II. III.—(Three hours.)
 Military Science.—(One hour.)
 Rhetoric.—(One Oration each term.)
 Electives.—(Three hours.)

G.—AGRICULTURAL BIOLOGY.

FRESHMAN YEAR.

Students must take Botany I. and II. instead of Physics I., otherwise as in General Course.

SOPHOMORE YEAR.

Students must take Zoology I. and Physiology, instead of Chemistry and Physics, otherwise as in General Course.

JUNIOR YEAR.

- Zoology V.—(Three hours.)
 Zoology VI.—(Two hours.)
 Bacteriology.—(One hour.)
 Geology II.—(Three hours.)
 Military Science.—(One hour.)
 English Literature IV.—(Three hours.)
 Rhetoric.—(Two Essays and one Oration.)
 Electives.—(Three hours.)

SENIOR YEAR.

- Animal Anatomy and Physiology IX.—(Four hours.)
 Lectures on Soils, Irrigation, Drainage, Breeding, and Cultivated Plants.—(Two hours.)

- Thesis.—(Three hours.)
Political Science I. II.—(Three hours); *or*
Philosophy I. II. III.—(Three hours.)
Military Science.—(One hour.)
Rhetoric.—(One Oration each term.)
Electives.—(Three hours.)

H.—PEDAGOGICS.

The elective course in Pedagogics (p. 50) is open to students in the General Scientific Course.

CIVIL ENGINEERING COURSE.

The Freshman year is identical with that of the General Scientific Course.

SOPHOMORE YEAR.

FIRST TERM.

- Mathematics* IV.—(Six hours.)
Graphics.—Drafting instruments and operations: Plane problems; Elementary Descriptive Geometry; recitations, etc., four hours, with four hours of drawing.
Rhetoric.—(One Essay on an assigned Subject.)
Modern Language II. or III.—German or French.—(Four hours.)
Physics II.—(Two hours.)

SECOND TERM.

- Mathematics* IV.—(Six hours.)
Graphics.—Descriptive Geometry; recitations four hours, with four hours of drawing.
Rhetoric.—One Essay on an assigned Subject.
Modern Language II. or III., as in the first term.
Physics II.—(Two hours.)

THIRD TERM.

Mathematics IV.—(Six hours.)

Graphics.—Shades and Shadows; Linear perspective; Recitations four hours, with four hours of drawing.

Rhetoric.—One Essay on an assigned Subject.

Modern Language II. or III., as in the first term.

Physics II.—(Two hours.)

JUNIOR YEAR.

FIRST TERM.

Mathematics.—Todhunter's Analytical Statics. (Five hours.)

Surveying.—Johnson's Land Surveying; recitations (two hours); field work with compass and transit; platting surveys and computations (six hours.)

History I.—With the Freshman class of the Literary Course. (Four hours.)

Military Science.—(One hour.)

Geology I.—Topographical Geology. (Three hours.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

SECOND TERM.

Mathematics.—Todhunter's Analytical Statics. (Five hours.)

Stereotomy.—Warren's Stone Cutting; recitations four hours, with four hours drawing.

History I.—As in the first term.

Military Science.—(One hour.)

Rhetoric.—One Essay, to be read before the class, with class criticism.

Electives.—(Three hours.)

THIRD TERM.

Mathematics.—Method of Least Squares. (Four hours.)

Surveying.—Higher Surveying and Leveling; field work with Level and Plane-table; recitations three hours, with six hours of field work.

History I.—As in the first term.

Military Science.—(One hour.)

Rhetoric.—One Oration, to be read before the class, with class criticism.

Electives.—(Three hours.)

SENIOR YEAR.

FIRST TERM.

Field Engineering.—Location of Line of Railroad, with calculations of Excavations and Embankments; Henck's Field Book for Railroad Engineers; Searle's Railroad Spiral. Until November, twenty hours.

Civil Engineering.—(From November.) Strength of Materials; recitations (four hours), Laboratory work (three hours), Bridges and Roofs (four hours.)

Thesis—(Five hours.)

Rhetoric.—One Oration.

Electives.—(Three hours.)

SECOND AND THIRD TERMS.

Civil Engineering.—Strength of Materials (four hours), Bridges and Roofs (four hours), Laboratory work (three hours.)

Thesis.—(Five hours.)

Rhetoric.—One Oration each term.

Electives.—(Three hours.)

ELEMENTARY AGRICULTURAL COURSE.

A two-years' course in Elementary Agriculture is offered to those who are not able to take the full course. The requirements for admission to the studies of this course are the same as for admission to the Latin School, viz.:

English Grammar, Arithmetic (fractions, denominate numbers, percentage and its applications, analysis and proportion), *Geography, History of the United States.*

The arrangement of studies for the two years is as follows:

FIRST YEAR.

Mathematics.—Elementary Algebra. (Five hours.)

Elementary Botany.—Lectures and Field work. (Two hours.)

Zoology I.—(Four hours.)

Agriculture.—Lectures on Elementary Topics.

English.—Logical and philological study of the English language; Lectures on Grammatical Structure, with practical exercises for the application of principles deduced.

SECOND YEAR.

Botany and Horticulture.—Fertilization, Propagation, etc. (Two hours.)

Animal Anatomy and Physiology.—(Five hours.)

Entomology.—Structure and Development of Insects. (Three hours.)

Agriculture.—Lectures on Soils, Drainage, and Cultivated Plants. (Two hours.)

Chemistry.—Study of non-metallic elements, with five hours of laboratory practice per week for one year.

Physics.—Stewart's Lessons. (Two hours.)

DEPARTMENTS OF INSTRUCTION.

In each course, up to the end of the Sophomore year, the studies are prescribed; but in the Junior and the Senior years they are largely elective. This arrangement is designed to enable those students who may desire it, to concentrate their work upon special lines, or subjects. In addition to the elective studies which appear below, the required subjects of other Courses in either college are open to each student. But it is expected that in general all who have mastered the required work of the first two years will avail themselves of the special advanced studies of some Department. The following rules regarding the choice of electives are in force:

1. No study can be elected unless the professor in charge deems the student qualified to pursue it.
2. No elective shall be changed after two weeks of the term have passed.
3. No elective need be taught unless at least three students elect it.

The special subjects at present offered as electives, and the order in which they should be pursued, together with the required studies which lead up to them, are shown under the following summary of the Departments. Elective studies are distinguished by an asterisk:

PHILOSOPHY.

Associate Professor WOLFE.

- I. General Psychology: Nervous System, Sense Organs, Psycho-physical Methods and Results, Instincts, Consciousness; Attention, Association, Memory, Emotions, Will. *References:* Ladd, Wundt, James, Bain, Sully, Ribot, Periodicals.—*Junior and Senior Years:* first and second terms, three hours.
- II. Logic: (a) Jevons's Elements, and Fowler's Inductive Logic. (b) Mill's Logic, Jevons's Principles of Science, and Wundt's Logik.—*Junior or Senior Year:* second and third terms, three hours.
- III. Ethics: General study of the principal theories. *References:* Martineau, Sidgwick, Stephen, Wundt, Spencer,

- Green, Paulsen, Fowler.—*Junior or Senior Year*: third term, three hours.
- IV. *History of Philosophy: Outline study of the development and relations of systems from Thales to Spencer; Lectures and Special Readings in Plato, Aristotle, Augustine, Thomas Aquinas, Descartes, Spinoza, Locke, Leibnitz, Kant; also in the General Histories of Philosophy by Zeller, Ueberweg, Erdmann and Fischer.—During the year, three hours.
- V. *Special Studies: In Idealism (Plato); first term. In Criticism (Kant); second term. In Evolution (Spencer); third term. *Senior Year*: two hours.
- VI. *Experimental Psychology: Lectures and Laboratory work, during the *Senior Year*, two hours. Additional hours may be devoted to original research.
- VII. *History, Methods, and Systems of Education.—During the year, two hours.
- VIII. *Pedagogical Psychology: Studies in Child-nature, Mental Development, Attention, Habit, etc.—During the year, two hours.
- IX. *Æsthetics: First term; three hours.

GREEK LANGUAGE AND LITERATURE.

- I. Xenophon: Anabasis; Greek Prose.—*Freshman Year*: first term, five hours. Associate Professor LEES.
- II. Xenophon: Memorabilia; Greek Prose.—*Freshman Year*: second term, four hours. Associate Professor LEES.
- III. Lysias: Select Orations; Greek Prose.—*Freshman Year*: third term, five hours. Professor McMILLAN.
- IV. Homer: Iliad.—*Sophomore Year*: first term, four hours. Professor McMILLAN.
- V. Thucydides, Bk. VII.—*Sophomore Year*: second term, five hours. Professor McMILLAN.
- VI. Plato and Crito.—*Sophomore Year*: third term, four hours. Professor McMILLAN.
- VII. Sophocles: Antigone; Study of the Drama.—*Junior Year*: first term, three hours, M., W., F. Professor McMILLAN.

- VIII. Demosthenes: Select orations; Greek antiquities.—*Junior Year*: second term, three hours, M., W., F. Professor McMILLAN.
- IX. Plato: Phædo.—*Junior Year*: third term, three hours. Professor McMILLAN.
- X. *Lyric Poetry. Lyric Anthology.—*Junior Year*: third term, two hours, T, Th. Professor McMILLAN.
- XI. *Lucian: (Selections).—Aeschylus (Prometheus Vinctus). Euripides (Alcestes and Iphigenia in Tauris). Reading at Sight.—*Junior or Senior Year*: First term, two hours, M. and W., second term, three hours, M., W., F. Professor McMILLAN.
- XII. *Greek Oratory: Critical study of one orator, reading and discussion of selected portions of other orators. Lectures. Comparison of Greek with English standards of Oratory. *Junior or Senior Year*: second and third terms, three hours, M., W., F. Associate Professor LEES.
- XIII. *Aristophanes, with lectures on Greek Comedy and Comedians.—*Junior or Senior Year*: first term, two hours, T, Th. Associate Professor LEES.
- XIV. *Plato. (Phædo and selections from the Republic.) Aristotle (Ethics, Books I. IV.) In this course the attention will be directed mainly to the subject-matter of the author read.—*Senior Year*: second and third terms, two hours, T, Th. Professor McMILLAN.
- XV. *Hellenistic Greek: The Acts; selections from the Epistles and Septuagint.—*Junior Year*: first and second terms, two hours, M., W. Professor McMILLAN.
- XVI. *Greek Prose Composition: (Second Course.) Sidgwick's Introduction (parts I. and II.); Goodwin's Moods and Tenses. This course is especially designed for teachers.—*Junior or Senior Year*: first term, two hours, M., W., (1891-92). Professor McMILLAN.
- XVII. *History of Greek Literature. Lectures and recitations, with direction of students' private reading.—*Senior Year*: first and second terms, three hours, M., W., F. Professor McMILLAN.
- XVIII. *Greek Grammar: An elementary course in the comparative

Grammar of Greek and Latin. Lectures by the instructor; papers and discussions by members of the class.—*Senior Year*: second and third terms, two hours, T., Th. Associate Professor LEES.

- XIX. *Modern Greek: Lectures on the changes of grammatical forms in Modern Greek as compared with ancient Classical Greek; followed by a course of reading Modern Greek.—*Senior Year*: first term, two hours, T., Th. Associate Professor LEES.

LATIN LANGUAGE AND LITERATURE.

- I. Vergil: *Æneid*, and *Eclogues*; Latin Syntax and Prosody.—*Freshman Year*: first term, four hours, second term, five hours. Professor BARBER.
- II. Cicero: *De Senectute*; Latin Grammar.—*Freshman Year*: third term, four hours. Professor BARBER.
- III. Livy; Books XXI. XXII.; Quintus Curtius at Sight.—*Sophomore Year*: first term five hours, second term four hours. Professor BARBER.
- IV. Horace: Selected Odes, Satires and Epistles; Latin Prosody.—*Freshman Year*: third term, five hours. Professor BARBER.
- V. *Cicero: *Epistolæ*.—*Junior Year*: first term, two hours, T., Th. Professor BARBER.
- VI. Horace: *Ars Poetica*; Plautus; *Captivi*, lectures on Roman Meters.—*Junior Year*: first term, three hours, M., W., F. Professor BARBER.
- VII. *Tacitus: *Annals*.—*Junior Year*: second term, two hours, T., Th. Professor BARBER.
- VIII. Terence: *Adelphi*; Prosody; Lectures on Roman Meters.—*Junior Year*: second term, three hours, M., W., F. Professor BARBER.
- IX. *Juvenal, or Catullus, with Lectures on the development of Latin Forms.—*Junior Year*: third term, two hours, T., Th. Professor BARBER.
- X. *Quintilian: Lectures on Roman Literature.—*Junior Year*: third term, two hours, T., Th. Professor BARBER.
- XI. Tacitus: *Germania* and *Agricola*; Lectures on Roman Liter-

- ature and Art.—*Junior Year*: third term, three hours, M., W., F. Professor BARBER.
- XII *Suetonius, or Seneca.—*Junior Year*: first term, two hours, T., Th. Professor BARBER.
- XIII. *Pliny's Letters; Roman Law.—*Senior Year*: second term, two hours, T., Th. Professor BARBER.
- XIV. *Lectures on Archæology.—*Senior Year*: first term, one hour, Th. Professor BARBER.
- XV. *Latin Composition and Conversation. — *Senior Year*. Throughout the year, one hour. Professor BARBER.
- XVI. *Latin Grammar; an Elementary Course in the Comparative Grammar of the Latin and Greek Languages —*Senior Year*: second and third terms, two hours, T., Th. Associate Professor LEES.
- XVII. *Roman Inscriptions; Study of Select Inscriptions, second term, one hour. Professor BARBER.

MATHEMATICS.

- I. Spherical Geometry and Trigonometry.—*Freshman Year*: first term, five hours. Professor HITCHCOCK and Instructor HODGMAN.
- II. Trigonometry with higher Algebra.—*Freshman Year*: second term, five hours. Professor HITCHCOCK and Instructor HODGMAN.
- III. Conic Sections and Analytical Geometry.—*Freshman Year*: third term, five hours. Professor HITCHCOCK and Instructor HODGMAN.
- IV. Analytical Geometry and Calculus. — *Sophomore Year*: Throughout the year, six hours. Professor HITCHCOCK.

CHEMISTRY.

- I. Study of the metallic elements and their more common compounds, with five hours of laboratory practice per week for one year, two hours, T., Th., 11-30. Professor LLOYD.
- II. Continuation of course I. with special study of characteristic reactions, with seven hours laboratory practice per week

- for one year, two hours, M., W., 9-30. Professor LLOYD.
- III. The elementary principles of Chemical Philosophy, one lecture per week throughout the year, one hour, Friday, 9-30. Professor NICHOLSON. (Must be preceded by I.)
- IV. Gravimetric and volumetric methods of quantitative analysis, with fifteen hours of laboratory practice per week for one year, five hours, M., W., 11-30. Professor NICHOLSON. (Must be preceded by I. and II.)
- V. Lectures on the History of Chemistry, with special reference to the work of eminent chemists, one hour per week throughout the year, Friday, 11-30.
- VI. Organic Chemistry; two lectures with four hours of laboratory practice per week for one year, two hours, T., Th., 9-30. Professor NICHOLSON. (Must be preceded by I. II., and IV. or XII.)
- VII. The Chemistry of the Sugar group, with especial attention to its application in the manufacture of beet sugar; two lectures per week throughout the year, with the necessary laboratory practice, M., W., 9-30. Professor HORTON.
- VIII. Photography: With special reference to the Chemical Principles involved. One term, two hours. Professor NICHOLSON and Laboratory Assistant. (Must be preceded by I. and II.)
- IX. Assaying: Fire assays of ores of gold, silver, lead, etc., one term, two hours. Mr. FULMER. (Must be preceded by I. and II.)
- X. Analysis of fuels: coals, coke, and wood. One term, two hours. Mr. FULMER. (Must be preceded by I. and II.)
- XI. Reading of current chemical literature and reports thereon, one hour. Professor LLOYD. (Must be preceded by I. II., and IV. or V.)
- XII. Method of Analysis, gravimetric and volumetric, adapted to the investigations of agricultural problems, with fifteen hours of laboratory practice per week for one year, five hours, 11-30. Professor HORTON. (Must be preceded by I. and II. Required of Agricultural specials.)
- XIII. Investigation of important chemical problems. (Five hours.) Must be preceded by I. II. III. (IV. or XII.) VI. and XI.

- XIV. Short course in general Chemistry, two hours per week throughout the year; lectures, recitations and laboratory practice. (This course is arranged to meet the needs of classical students.)

PHYSICS.

Professor BRACE, Adjunct Professor ALLEN.

- I. Experimental Physics; Twice weekly.—*Freshman Year*: Course I. will consist of Experimental Lectures and Recitations on Mechanics, Sound and Heat, supplemented with exercises in the Laboratory. M., W., 11-30 and 2 to 5.
- II. Experimental Physics; Twice weekly.—*Sophomore Year*: Course II. is a continuation of course I. and includes Light, Electricity and Magnetism. Stewart's lessons in Elementary Physics or an equivalent is required for admission to these Courses. T., Th., 11-30 and 2 to 5.
- III. General Astronomy; Four times weekly.—*Winter Term*: Course III. includes the major portion of Young's General Astronomy with exercises in Practical Astronomy.
- IV. Physical Laboratory; Eight hours weekly.—*Junior Year*: Course IV. will cover special problems involving exact measurements, and is supplemented by readings on the problems assigned.
- V. *Mechanics and Sound: Advanced Laboratory Course: Eight hours weekly. Course V. comprises the comparison and determination of the standards of length, mass and time; and the measurement of the more important constants in the dynamics of solids and fluids.
- VI. *Heat: Advanced Laboratory Course: Eight hours weekly. Course VI. includes advanced work on special problems in Thermometry, Expansion, Calorimetry, Vapor Density and Tension, Conduction, Radiation and the Applications of Thermodynamics. Special attention may be given to problems relating to Meteorology.
- VII. *Light: Advanced Laboratory Course: Eight hours weekly. Course VII. will cover special studies and measurements in Photometry, Lenses, Refraction, Interference, Diffraction, Polarization, Spectroscopy and Spectrophotometry.

- VIII. *Electricity: Advanced Laboratory Course: Eight hours weekly. Course VIII. will be devoted more especially to the determination and comparison of Electrical Constants and the testing of Electrical Instruments. Special attention may be given to Electro-Optics.
- IX. Applied Electricity: Twelve hours weekly.—*Senior Year*: Course IX. includes tests of Dynamo-Electric machinery, Electric Transmission of Power, Electric Lines and Lamps, and experimental studies in the process of Electro-Metallurgy, Electric Welding and Electric Smelting. Course VIII. should be taken in addition to this Course.
- X. Mathematical Physics: Four times weekly.—*Junior or Senior Year*: Course X. will cover the more general applications of the Calculus to the solution of elementary problems in the Kinematics and Dynamics of solid and fluid bodies, with applications in Sound, Light and Thermodynamics. Reference books:—Minchin's Uniplanar Kinematics, Maxwell's Heat, Briot's Thermodynamique, Lloyd and Airy on Light, and the Vorlesungen über Mathematische Physik by F. Neumann and by Riemann.
- XI. Mathematical Theory of Electricity and Magnetism: Four times weekly.—*Junior or Senior Year*: Course XI. will require a thorough knowledge of the Calculus and its applications and will be taken from Maxwell's Electricity and Magnetism.
- XII. *Advanced Physics: Readings and Discussions: Twice weekly. Course XII. is intended for graduate and advanced students desiring to devote special attention to Theoretical Physics. Students will read from Kirchhoff, Somoff, and Thomson and Tait on Mechanics; Rayleigh, Helmholtz, and Lamb on Sound and Fluid Motion; Briot, Verdet, Clausius, and Fourier on Thermodynamics and Conduction; Parkinson, Kirchhoff, Thomson, Rayleigh, Verdet, Mascart, and Billet on Light; and Thomson, Helmholtz, Maxwell, and Mascart and Joubert on Electricity and Magnetism.
- XIII. Colloquium: Once weekly. Advanced students will present papers on special topics and be prepared to discuss the subjects assigned.

GEOLOGY.

Professor HICKS.

- I. Elementary Geology: Two hours, one year.
- II. Mineralogy and Lithology; Dynamic, Structural and Historical Geology. Three hours, one year.
- III. *Crystallography. Two hours, one term.
- IV. *Microscopic Petrography. Two hours, two terms.
- V. *Topographic Geology. One hour, one year.
- VI. Geology of the several Continents; particular attention being given to the geological structure of those countries which have been most prominent in the history and development of the human race. Three hours, two terms.
- VII. Economic Geology. Three hours, one term.
- VIII. *Geological Reports, Cartographic Methods, Special Problems in Field Work, Advanced Petrography. Three hours, one year.

ZOOLOGY.

Professor KINGSLEY and Dr. FROTHINGHAM.

- I. General Zoology: Lectures and laboratory work, four hours a week.
- II. Comparative Anatomy: Laboratory work, five hours a week.
- III. Histology: Laboratory work, one hour a week.
- IV. Human and Comparative Physiology: Lectures and Laboratory work, two hours a week.
- V. Embryology. Lectures and Laboratory work, three hours a week.
- VI. Entomology: Laboratory work, two hours a week.
- VII. Animal Morphology: Lectures twice a week.
- VIII. Anthropology. Three hours a week, third term.
- IX. Anatomy and Physiology of Domestic Animals. Four hours a week.
- X. Thesis.

BOTANY AND HORTICULTURE.

Botany.—Professor BESSEY.

- I. General Anatomy and Physiology of Plants, with five hours in the Laboratory; first term, two hours.
- II. Special Anatomy and Physiology of the lower plants (Proto-phytes to Pteridophytes), with five hours in the Laboratory; second and third terms.
- III. Special Anatomy and Physiology of the Anthophytes, with five hours in the Laboratory; two hours.
- IV. *Study of the structure or physiology of one plant. Open to those having completed courses I. to III.—*Junior and Senior Years.*
- V. *Comparative Anatomy of particular tissues or organs.—*Junior or Senior Year.*
- VI. *Study of a selected group of plants, including structure and classification.—*Junior and Senior Years.*
- VII. *Study of the flora of Lincoln, including collection of specimens and preparation of a catalogue.—*Junior and Senior Years.*
- VIII. *Advanced work in Vegetable Physiology.—*Junior or Senior Year.*

Horticulture.—Professor BESSEY, Adjunct Professor TAYLOR.

- I. The Fertilization and Propagation of Plants; Hybridization; Diseases of Plants; two hours, with Laboratory work.
- II. Variations of Plants; Improvement of Varieties; Plant Breeding; Diseases of Plants; two hours with Laboratory work.
- III. Plant Food; Plant Growth; Diseases of Plants; Lectures on the Principles of Landscape Gardening; two hours, with Laboratory work.

MODERN LANGUAGES SANSKRIT, AND HEBREW.

- I. German: Grammar and Reader, with especial reference to correct pronunciation, mastery of the essentials of gram-

- mar, critical and exact translation, and the relations of German to English.—*Freshman Year*: first, second, and third terms, five hours. Mr. FOSSLER.
- II. German: Readings from select authors, both with preparation and at sight, with philologic and literary lectures.—*Sophomore Year*: first, second, and third terms, five hours. Mr. FOSSLER.
- III. *German: Advanced Reading; Lectures on General Philology and Literature.—*Junior and Senior Years*: first, second, and third terms, two hours, T., Th. Mr. FOSSLER.
- IV. French: Grammar and Reader, with especial reference to correct pronunciation, mastery of the essentials of grammar, critical and exact translation, and the relations of French to Latin and English.—*Sophomore Year*: first, second, and third terms, four hours, M., T., W., Th. Professor EDGREN.
- V. French: Reading of Classical Authors, with philologic and literary lectures.—*Junior Year*: first and second terms, three hours, M., W., F. Professor EDGREN.
- VI. Italian: Grammar and Reader.—*Junior Year*: third term, three hours, M., W., F. Professor EDGREN.
- VII. *Italian: Select authors.—*Senior Year*: first and second terms, two hours, T., Th. Professor EDGREN.
- VIII. *French: Advanced Reading, or Conversation and Composition. *Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- IX. *Scandinavian Languages: first, second, and third terms, two hours. Professor EDGREN.
- X. *Sanskrit: Grammar and Reader.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- XI. *Spanish: Grammar and Readings.—*Junior and Senior Years*: second and third terms, two hours, T., Th. Professor EDGREN.
- XII. *Sanskrit: Advanced Course.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- XIII. *Hebrew: Elementary Course.—*Senior Year*: first, second, and third terms, two hours. Professor EDGREN.

ENGLISH LITERATURE.

- I. Anglo-Saxon and Early English; Historical Study of English by principal authors from Cædmon to Chaucer.—*Sophomore Year*: first, second and third terms, four hours, M., T., W., F. Professor SHERMAN.
- II. *Anglo-Saxon and Early English; Special Authors.—*Junior Year*: first term, two hours, T., Th. Professor SHERMAN.
- III. English Literature, Introductory Course: General Survey from Chaucer to the modern period, with special study of chief authors, origin of various schools, and influence of other literatures.—*Junior Year*: first, second and third terms, three hours, M., W., F. Professor SHERMAN.
- IV. *Shakespeare, First Course: Macbeth; Hamlet; Othello.—*Junior Year*: first, second, and third terms, three hours, M., W., F. Professor SHERMAN.
- V. *Shakespeare, Advanced Course: Julius Cæsar, Antony and Cleopatra; Merchant of Venice, Cymbeline; King Lear, Coriolanus.—*Senior Year*: first, second, and third terms, three hours, T., Th., F. Professor SHERMAN.
- VI *English Literature, Advanced Course: Critical study of select authors, with reference to the genesis and development of modern Taste and Standards; Lectures on Æsthetics, Resources of Style, and Comparison of Literatures; Practical Criticism of Current Literature.—*Senior Year*: first term, two hours, M., W. Professor SHERMAN.
- VII. *American Literature.—*Senior Year*: second and third terms, two hours, M., W. Professor SHERMAN.
- VIII. *Browning Course; Men and Women; Select Dramas; Sor-dello.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor SHERMAN.

RHETORIC AND ORATORY.

- I. Lectures on the Principles of Rhetoric; Practical Exercises in Criticism and Composition; Themes and Studies in Style; Argumentative Themes.—*Freshman Year*: first, second, and third terms, two hours, M., W. Associate Professor HUNT.

- II. Rhetoric and Oratory, Advanced Course: Studies of the best Stylists and Models; Practical Training in the formation of a correct style, whether in the essay or in the oration—*Sophomore Year*: first, second, and third terms, two hours, T., Th. Associate Professor HUNT.

HISTORY.

- I. Ancient History: Epochs of Grecian, Persian, and Roman History; Lectures on Athenian, Spartan, and Roman Constitutions.—*Freshman Year*: first, second, and third terms, four hours, M., T., Th., F. Professor HOWARD.
- II. Ancient History: The Early Empire, from Augustus to Constantine—*Sophomore Year*: first term, four hours, M., T., W., Th. Professor HOWARD.
- III. The Middle Ages: From Constantine to the Crusades: The Hundred Years' War; Louis XI. and Charles the Bold.—*Sophomore Year*: second and third terms, four hours, M., T., W., Th. Professor HOWARD.
- IV. *History of the Renaissance: Revival of Literature; Dante, Petrarch, Boccaccio; Of Learning: Study of Latin and Greek, Universities, Printing, etc.; Of Art: Michael Angelo, Raphael, Leonardo da Vinci; Politics and Religion: Machiavelli, Savonarola, etc. *References*: Symonds, Pater, Grimm, Villari, Roscoe, Burckhardt, etc.—*Junior or Senior Year*: first term, four hours. Associate Professor CALDWELL.
- V. European History, 1500–1800: Protestant Revolution; Thirty Years' War; Puritan Revolution; Age of Anne.—*Junior Year*: first, second, and third terms, three hours, T., Th., F. Associate Professor CALDWELL.
- VI. *The French Revolution: Ancient Regime; Rousseau, Voltaire, Diderot; National and Legislative Assemblies; Jacobin Conquest, Thermidor, Vendemiaire; Eighteenth Fructidor, Eighteenth Brumaire.—*Junior or Senior Year*: second and third terms, three hours, T., W., F. Professor HOWARD.
- VII. *Ancient Law: A Study of the Genesis of Aryan Institutions in the Works of Maine, Haern, Coulanges, Laveleye, Morgan, McLennan, Spencer, etc.—*Junior or Senior*

Year: first, term, three hours, M., W., F. Professor HOWARD.

- VIII. *Growth of the English Constitution: A Comparative Study of the Development of English Institutions from Tacitus to the present time, in the works of Stubbs, Waitz, Kemble, May, Bagehot, Cox, the Collections of Schmid, and Thorpe, the Rolls Series, etc.—*Junior or Senior Year:* first, second, and third terms, five hours. (This course will be given in 1890-91, but not in 1891-92.) Professor HOWARD.
- IX. *Political History of the Nineteenth Century; Reform Bills of 1832, 1867, and 1884; Growth of British India; Corn Laws, and Rise of Free Trade; French Revolutions; Rise of Prussia; German Empire; Growth of Italy; Minor Powers.—*Junior or Senior Year:* first term, three hours, M., W., F. Associate Professor CALDWELL.
- X. *American History: Discoveries, Explorations, Settlements, with related European history; Analysis of forms of Colonial government; Establishment of Local Institutions in the Colonies, North and South; Plans of Union among the Colonies; Independence; Confederation.—*Junior or Senior Year:* first, second, and third terms, five hours. (This course will be given in 1891-92, but not in 1890-91.) Professor HOWARD.
- XI. *American History: Formation of the Constitution; Ratification; Political and Constitutional development to the Civil War; Reconstruction. *Authorities:* Bancroft, Von Holst, Curtis, Elliot, Federalist, Greeley, Wilson, Statesmen Series, Draper, Benton, Poore, the Madison papers, etc.—*Junior or Senior Year:* first, second, and third terms, five hours. Associate Professor CALDWELL.

ECONOMIC AND POLITICAL SCIENCE.

Associate Professor WARNER.

- I. Political Economy: General study of the subject, with the use of some text as Walker, Ely, or Andrews. Lectures on the Character and History of the Science, and on specific applications of its principles to practical affairs. Topical reports from students required, and exercises

assigned in the use of statistics. *Junior or Senior Year:* whole year, three hours.

- II. Taxation; text and lectures. *Junior or Senior Year:* second and third term, three hours.
- III. *International Law: Outline study of the subject, with text. Third term, three hours.
- IV. *Municipal Administration: Comparative study of the City Governments of the present time, with especial reference to American practice in the administrative branches. First term, two hours.
- V. *Constitutional Law: A study of Cooley's text book, and lectures on the industrial bearings of the complex limitations imposed by our state and local constitutions. Second term, three hours.
- VI. *Private Corporations: First term, a comparative and historical view of corporation law in its economic aspects; second term, Railroad Problems: third term, special reports on assigned topics involving original research. Whole year, two hours.
- VII. *Charities and Corrections: Lectures, study of reports of the State Boards and of the National Conference of Charities and Corrections, and visits to the charitable and penal institutions of the vicinity; third term, three hours.
- VIII. *Methods of Legislating: A comparative view of the rules and practice of modern legislative assemblies, with special reference to the machinery of congressional and legislative action in the United States; first term, one hour.

(In the other departments, Professor KINGSLEY offers a course in Anthropology, and many of the courses in History deal with the historical aspects of industrial problems.)

MILITARY SCIENCE.

Professor GRIFFITH.

- I. Infantry and Artillery Tactics.
- II. Elementary Principles of the Art of War.
- III. *Field Fortification.—*Junior or Senior Year:* first term, two hours.

- IV. *Art and Science of War.—*Junior or Senior Year*: second term, two hours.
- V. *Manufacture and Use of Gunpowder; Manufacture of Small Arms, Cannon, Torpedoes, and their Use; Strategy and Tactics, Campaigns, etc.; Logistics: Customs of the Service; Lectures.—*Junior or Senior Year*: third term, two hours.

CIVIL ENGINEERING.

Professor LITTLE.

- I. Descriptive Geometry; Shades and Shadows: Linear Perspective.—*Sophomore Year*: first, second, and third terms, eight hours.
- II. Stereotomy: Stone Cutting.—*Junior Year*: winter term, eight hours.
- III. Surveying: Use of Compass, Plane Table, Transit and Level.—*Junior Year*: first and third terms, nine hours.
- IV. Railroad Engineering: Laying out Curves; Location of Line of Railroad; Setting Slope Stakes; Calculation of Excavation and Embankment; Transition Curves.—*Senior Year*: first term until November, twenty hours.
- V. Materials of Construction.—*Senior Year*: from November through the year, seven hours.
- VI. Bridge and Roof Trusses.—*Senior Year*: from November through the year, four hours.
- VII. Analytical Statics: Equilibrium of System of Forces; Friction; Attraction.—*Junior Year*: first and second terms, five hours.
- VIII. Method of Least Squares.—*Junior Year*: third term, four hours.

AGRICULTURE AND BIOLOGY.

- I. Irrigation and Drainage: first term, two hours. Professor HICKS.
- II. History, development and characteristics of the various breeds of Domestic Animals; Stock Breeding; Feeding; second term, two hours. Dr. FROTHINGHAM.
- III. History, Propagation and Varieties of Cultivated Plants;

Grasses and Forage Plants; third term, two hours. Professor BESSEY.

- IV. Human and Comparative Physiology.—*Sophomore Year*: two hours. Dr. FROTHINGHAM.
- V. Anatomy and Physiology of Domestic Animals: one year, four hours. Dr. FROTHINGHAM.
- VI. Comparative Embryology.—*Junior Year*: two hours. Professor KINGSLEY.
- VII. Bacteriology.—One hour. Dr. FROTHINGHAM.
- VIII. Anthropology.—*Junior Year*: one hour. Professor KINGSLEY.

Professor INGERSOLL will announce courses of lectures in Practical Agriculture at the opening of the fall term of 1891.

SYNOPTICAL VIEW OF THE UNDERGRADUATE COURSES OF STUDY.

Year	Term	ACADEMIC COLLEGE.			INDUSTRIAL COLLEGE.		
		CLASSICAL COURSE.	LITERARY COURSE.	SCIENTIFIC COURSE.	AGRICULTURAL COURSE.	ENGINEERING COURSE.	
Freshman	1st.	Latin Greek Mathematics Rhetoric	German Mathematics History Rhetoric	German Chemistry Physics Mathematics Rhetoric	German Chemistry Mathematics Rhetoric Botany	German Chemistry Mathematics Rhetoric Physics	
	2d.	Latin Greek Mathematics Rhetoric	German Mathematics History Rhetoric	German Chemistry Physics Mathematics Rhetoric	German Chemistry Mathematics Rhetoric Botany	German Chemistry Mathematics Rhetoric Physics	
	3d.	Latin Greek Mathematics Rhetoric	German Mathematics Rhetoric History	German Chemistry Physics Mathematics Rhetoric	German Chemistry Mathematics Botany Rhetoric	German Chemistry Mathematics Rhetoric Physics	
Sophomore.	1st.	Latin Greek German Chemistry	German French Anglo-Saxon History	German French Physics Chemistry Rhetoric	German French Physiology Zoology Rhetoric	Mathematics Physics Graphics Modern Languages	
	2d.	Latin Greek German Chemistry	German French Early English History	German French Physics Rhetoric Chemistry	German French Physiology Zoology Rhetoric	Mathematics Physics Graphics Modern Languages	
	3d.	Latin Greek German Chemistry	German French Early English History	German French Physics Rhetoric Chemistry	German French Physiology Zoology Rhetoric	Mathematics Physics Graphics Modern Languages	

Year	ACADEMIC COLLEGE.				INDUSTRIAL COLLEGE.			
	CLASSICAL COURSE.	LITERARY COURSE.	SCIENTIFIC COURSE.	GENERAL COURSE.	AGRICULTURAL COURSE.	ENGINEERING COURSE.		
Junior.	1st.	French English Literature History Electives	3 3 3 6	Geology Zoology Botany French Electives Military Science	Zoology English Literature Geology Entomology Electives Military Science	Mathematics History Geology Surveying Military Science		
	2d.	French English Literature History Electives	3 3 3 6	Geology Botany Zoology French Electives Military Science	Zoology English Literature Geology Entomology Electives Military Science	Mathematics History Surveying Military Science Electives		
	3d.	Italian English Literature History Electives	3 3 3 6	Geology Botany Zoology French Electives Military Science	Zoology English Literature Geology Entomology Electives Military Science	Mathematics History Military Science Surveying Electives		
Senior.	1st.	Political Science Philosophy Electives	3 3 10	Pol. Sci. or Phil. English Literature Geology Military Science Electives	Animal Anat. & Phys. Lectures, Soils, Etc. Thesis Pol. Sci. or Phil. Military Science Electives	Field Engineering Thesis Civil Engineering Electives		
	2d.	Political Science Philosophy Electives	3 3 10	As in First Term.	Animal Anat. & Phys. Lectures, Soils, Etc. Thesis Pol. Sci. or Phil. Military Science Electives	Civil Engineering Bridges and Roofs Electives Thesis		
	3d.	Political Science Philosophy Electives	3 3 10	As in First Term.	Animal Anat. & Phys. Lectures, Soils, Etc. Thesis Pol. Sci. or Phil. Military Science Electives	Civil Engineering Bridges and Roofs Electives Thesis		

GRADUATE INSTRUCTION.

Graduates of this and other Colleges, and other persons of approved attainments, are provided advanced instruction in certain lines of study, with or without reference to a degree.

The subjects in which at present Graduate Instruction is offered are the following :

LATIN.

Professor BARBER: The Satirists; the Roman Drama; Roman Law.

GREEK.

Professor McMILLAN: The Lyric Poets; the Comic Drama; Greek Philosophy.

SANSKRIT.

Professor EDGREN: Grammar; Classical and Vedic Reading.

ROMANCE LANGUAGES.

Professor EDGREN: French, Italian and Spanish Literature.

GOTHIC AND GERMAN.

Professor EDGREN: Grammar and Ulphilas.
Mr. FOSSLER: Old and Middle High German.

COMPARATIVE PHILOLOGY.

Professor EDGREN: Phonetics of Sanskrit, Greek, Latin and Gothic.

MATHEMATICS AND CIVIL ENGINEERING.

Professors HITCHCOCK and LITTLE: Analytical Mechanics; Higher Geometry; Determinants; Quaternions; Geodesy.

ENGLISH.

Professor SHERMAN: Anglo-Saxon and Middle English; English or American Literature.

HISTORY.

Professor HOWARD: Growth of the English Constitution, or American Institutional History.

ECONOMIC AND POLITICAL SCIENCE.

Associate Professor WARNER: Private Corporations; Municipal Finance; or original work based on the elective courses described elsewhere, pp.

PHILOSOPHY.

DR. WOLFE: Advanced Study of Psychology.

CHEMISTRY.

Professors NICHOLSON and LLOYD: Analysis of the Minerals and Waters of the state; Ultimate Analysis of Organic Products; Analysis of Gases; Study of Unsolved Chemical Problems.

PHYSICS.

Professor BRACE: Advanced work in Physics and Electrical Engineering.

GEOLOGY.

Professor HICKS: Topographic work; Special field problems in Structural Geology; Optical investigation of Minerals and Rocks; Advanced Petrology.

BIOLOGY.

Professor BESSEY: Advanced work in Vegetable Anatomy and Physiology, and the Structure and Classification of the Lower Plants.

Professor KINGSLEY: Histology and Embryology.

THE DEGREE OF MASTER OF ARTS.

The degree of Master of Arts is conferred upon graduates of this or any other college of equivalent undergraduate courses, who have passed a satisfactory examination in certain lines of study pursued under the direction of the Faculty.

None but resident students are eligible to examination for the degree of Master of Arts, and at least one year's study is required. Candidates are restricted in the choice of studies to a single department. In the department selected each student may give his whole time to a single (or *Complete*) subject; or, if he prefer, having so arranged his time as to devote 60 per cent to a *Major* subject, he is at liberty either to give the remaining 40 per cent to one *First Minor* subject or to divide it between two *Second Minors*, each having a value in time of 20 per cent. The minimum amount of time, or work, necessary to render the candidate eligible to examination for the degree in any department may therefore be represented by 100; but this minimum being reached, candidates may offer for higher standing other subjects in any department they may choose.

Instruction is not given to candidates studying for the Master's degree, except in connection with the studies named above. But all professors not offering instruction will aid the student in the selection of his subjects, and from time to time advise and assist him in preparing for his examination. The examination is mainly written, and the result in each subject is determined by a committee consisting of the examiner and an associate. Each candidate, moreover, after passing the examination, must present an acceptable thesis upon some topic included in the studies of the year;* each thesis *to be publicly defended*, if required.

All candidates for the degree of M. A. must pay to the steward a fee of \$10 before examination.

THE DEGREE OF DOCTOR OF PHILOSOPHY.

The degree of Doctor of Philosophy is given for three years of graduate study, and the presentation of an acceptable thesis. Further conditions will be made known on application to the Faculty.

*Except in the subjects of Sanskrit and Modern Languages, in which the preparation of a thesis is optional.

COURSES OF PUBLIC LECTURES.

The University has instituted courses of Lectures upon topics of general interest, to which the public may obtain free access upon application. During the present year the following courses have been given:

ART HISTORY, by Miss Moore. (On Mondays, Wednesdays and Fridays throughout the year, at 3 P. M.)

FORESTRY, by Professor Bessey, B. E. Fernow, C. F. Stephens, F. W. Taylor and R. W. Furnas. (On Tuesdays and Thursdays, during the winter term, at 9:30 A. M.)

GRASSES AND FORAGE PLANTS, by Professor Bessey. (On Tuesdays and Thursdays, during the Spring Term, at 8:30 A. M.)

HEREDITY, by Professor Kingsley. (Two lectures on Thursday 5 P. M., Winter Term.)

THE HISTORY OF SOME FAMILIAR ARCHITECTURAL IDEAS, by Miss Moore. (Three lectures; on Thursdays 5 P. M., Spring Term.)

THE LATIN SCHOOL.

In this school preparation is afforded for all the Undergraduate Courses in the University.

Applicants for admission to the First Year will be examined in the following subjects:

English Grammar.

Arithmetic.—Fractions, denominate numbers, percentage and its applications, analysis and proportion.

Geography.

History of the United States.

Applicants for admission to the Second Year will be examined in the several studies of the First Year, and must attain a grade of sixty on the scale of one hundred. No conditions are allowed.

Examinations of candidates are held at the University, commencing at 9 A. M. on Thursday and Friday immediately after Commencement, in June, and on Tuesday and Wednesday in September at the opening of the Fall Term. Attendance at the opening of the examinations is required in all cases.

ADMISSION BY DIPLOMA.

Candidates holding diplomas from the High Schools of *Aurora, Fairmont, Friend, Gibbon, Harvard, Loup City, McCook, North Loup, Red Cloud, Sutton, and Wilber* showing graduation from accredited courses will be admitted to the Second Year without examination.

There is but one course of study preparatory to all the College Courses. In the second year the student chooses between Greek and Science. The arrangement of the studies for the two years is as follows:

FIRST YEAR.

FIRST TERM.

Latin.—Jones's First Lessons in Latin. (Five hours.)

Algebra.—Olney's Elementary Algebra. (Five hours.)

English.—Practical Exercises in Vocal Expression. (Two hours.)

History.—Barnes's, Swinton's or Meyers's General History; Roman and Greek History. Library work from blackboard diagrams. (Three hours.)

SECOND TERM.

Latin.—Jones's First Lessons in Latin, continued; Cæsar begun; Allen and Greenough's Grammar. (Five hours.)

Algebra.—Olney's University Algebra. (Five hours.)

English.—Logical and Philological study of English Grammar, with exercises for the practical application of the principles deduced.

History.—Mediæval or English History. Library work, as in first term. (Three hours.)

THIRD TERM.

Latin.—Allen and Greenough's Grammar; Cæsar, book II, (Five hours.)

Algebra.—Olney's University Algebra. (Five hours.)

English.—Grammar completed; exercises in capitalization and punctuation. (Two hours.)

History.—Modern or English History. Library work as before. (Three hours.)

SECOND YEAR.

FIRST TERM.

Latin.—Cæsar, books I. and III.; Daniell's Latin Composition. (Five hours.)

Algebra.—Olney's University Algebra, finished; Wells's Geometry, begun. (Five hours.)

English.—One Essay on an assigned subject.

Greek.—Goodwin's Grammar; Boise and Pattengill's First Lessons in Greek. (Five hours); *or*

Botany, Physics and Chemistry.—The gross anatomy of the flowers, fruits, leaves, and roots of several plants; talks on Green Slime, Yeast-Plant, Black Mould, Green Felt, and Grape Mildew (one hour); Balfour Stewart's Lessons in Elementary Physics; Mechanics, Sound and Heat, (two hours); Study of the Non-Metallic Chemical Elements; two class exercises, with five hours laboratory practice a week. (Two hours.)

SECOND TERM.

Latin.—Cicero, First, Second, and Third Orations against Catiline; Daniell's Latin Composition (Five hours.)

Geometry.—Wells's Geometry, continued through book V. (Five hours.)

English.—One Essay on an assigned subject.

Greek.—Greek Grammar, and First Lessons, finished; Anabasis begun, (five hours); *or*

Botany, Physics, Chemistry and Drawing.—The gross anatomy of stems and buds, and a study of the effects of low temperature on vegetation; talks on Seaweeds, Blights, Cup Fungi, Black Fungi, Rusts, and Smuts (one hour); Stewart's Lessons; Heat, Light, Electricity and Magnetism (three hours); Non-Metallic Elements continued, one hour of class exercises, with two hours and a half of laboratory practice per week; Free-hand Drawing (one hour).

THIRD TERM.

Latin.—Cicero; Fourth Oration against Catiline, and Poet Archias; Daniell's Composition. (Five hours.)

Mathematics.—Wells's Geometry, through book VII. (Five hours.)

English.—One Essay on an assigned subject.

Greek.—Greek Grammar; Anabasis, book I., (five hours); *or*

Botany, Drawing, and Chemistry.—The structure, analysis and identification of flowering plants (Gray's Lessons and Manual); and the preparation of a collection of one hundred plants in herbarium (two hours). Non-Metallic Elements continued; two class exercises and five hours of laboratory practice a week.

ANNOUNCEMENT.

The following recommendation of the Regents' Committee on Course of Study, was adopted December 18, 1889:

"Inasmuch as many of the High Schools of the state are doing work in the line of preparing students for the University proper, and are duplicating the work of the first year of the Latin School, your committee therefore recommend that from and after July 1, 1891, the course of study in the first year of the Latin School be discontinued."

On June 13, 1890, the following was ordered printed:

"The Regents authorize the statement that the proposed discontinuance of the first year of the Latin School after July 1, 1891, has been postponed. Due notice will be given of the discontinuance when put into effect."

Prospective students will take notice, and govern themselves accordingly.

SCHOOL OF THE FINE ARTS.

As it is not yet possible for the University to open the College of Fine Arts, it is necessary for the teachers of Art and Music to make a charge for tuition.

GRAPHIC ART.

Under the direction of Sarah Wool Moore, a pupil of Eisenmenger, Rector of the Vienna Academy of Fine Arts, instruction is given in drawing and painting from the flat, from casts, still-life, nature, and live models in the progressive order necessary to systematic training

of the eye and hand. Pupils are required to provide easels and material; the studio furnishes an ample selection of casts and studies.

TUITION FEES.

Daily lessons during eleven weeks.....	\$25 00
Four lessons weekly eleven weeks.....	21.00
Three lessons weekly eleven weeks.....	17.00

A course of lectures, abundantly illustrated, on Art History, especially Architecture, Sculpture and Painting, extends through the year.

Classes are also conducted in Perspective, and Artistic Anatomy.

MUSIC.

Instruction is given in the various branches of Music as follows:

I. THE PIANOFORTE.—Four years of study:

First Two Years.—Lebert and Stark's First and Second Books, Plaidy's or Handrock's Technical Studies—Czerny, Kohler, Bertini, Loeschhorn, and Heller's Studies.

Third Year.—Lebert and Stark's Third Book, Cramer's Studies, Sonatas and other works of Clementi, Mozart, Beethoven, and Mendelssohn.

Fourth Year.—Moscheles, Kullak, Schumann, Rubinstein, Liszt, and Chopin.

The most careful training practicable is given; particular attention is paid to technique, style, phrasing, and to that which constitutes the chief power of the performer, expression.

The Conservatory or Class System is employed, or private lessons given at the option of the pupil.

II. THE ORGAN.—Lessons are given on the Pipe and Reed Organ, and, as in the Pianoforte department, are designed for the purpose of imparting a complete training. The technical works of Best, Stainer, Rinck, etc., and the compositions of Bach, Mendelssohn, Merkel, Guilman, etc., are used.

III. THE VOICE.—Training of the voice; Care of the vocal organs; Management of the breath; Carefully selected exercises, scales (major, minor, and chromatic), and arpeggios are given in order to obtain flexibility of voice and a clear enunciation of words.

Classes in the rudiments of Music will be formed, if a sufficient number desire it.

IV. MUSICAL THEORY.—Harmony, Counterpoint, Fugue, Form, Instrumentation, Composition, etc., may be studied separately or in classes.

V. THE VIOLIN.—Instruction upon this instrument is given by a teacher trained in the Berlin and Leipzig Conservatories. Great care is taken to have the pupil attain a correct position, on which the development of tone and technique so largely depends.

Musical Soirees are given during the year, in order that the pupils may become accustomed to playing before the public.

TUITION FEES.

For a period of ten weeks—two lessons per week—payable one-half in advance, and the balance at the middle of the term.

PIANO, Private lessons, one hour.....	\$15 00
Private lessons, half hour.....	10 00
Classes of two pupils, each.....	7 50
Classes of four pupils, each.....	5 00
Use of Piano (one hour daily), per month.....	1 00
VOICE CULTURE, Private lessons, one hour... ..	\$15 00
Private lessons, half hour.....	10 00
THOROUGH BASS AND HARMONY, Classes.....	8 00

No deduction can be made for temporary absence from lessons, or lessons discontinued, except in cases of illness. Pupils should enter the classes at the beginning of the term.

For further information apply to Ermina D. C. Menzendorf.

GENERAL INFORMATION.

THE UNIVERSITY AND THE STATE.

The University of Nebraska is a part of the public educational system of the State. The governing body of the institution is a Board of Regents elected by popular vote for terms of six years, as provided in the State constitution. The University aims to complete and crown the work begun in the public schools, by affording to the inhabitants of this state the means for acquiring a thorough knowledge of the various branches of literature, sciences and the arts.

Through the aid received from the United States (*first*, by a grant of seventy-two sections of land "for the support of a State University," *second*, by a grant of 90,000 acres of land for the Industrial College, "for the benefit of agriculture and the mechanic arts," and *third*, by a special act (the so-called "Morrill Act") making an annual appropriation for "instruction in agriculture, the mechanic arts, the English language" and the related sciences), and the State (in a fund derived from a tax of three-eighths of a mill upon each dollar of valuation on the grand assessment roll of the State), the University is enabled to offer its privileges without charge for tuition, to residents of this state who are students in the academic and industrial colleges.

The law establishing the University provides that "the University may embrace five departments, to-wit: *First*, a College of Literature, Science and Arts; *second*, an Industrial College, embracing agriculture, practical science, civil engineering and the mechanic arts; *third*, a College of Law; *fourth*, a College of Medicine; *fifth*, a College of Fine Arts." Of these the first and second only are yet in operation.

THE ACCREDITED HIGH SCHOOLS.

By an arrangement made several years ago, the graduates of the accepted courses of the Accredited High Schools and Academies may enter the University without examination, on presentation of their diplomas. There are two grades of these accredited schools, viz: Those which prepare candidates for the second year of the Latin School ("Minor Course"), and those which prepare for the Freshman class ("Major Course").

Any school in order to be accredited to either course must, on request of the school board, be visited by a member of the University

Faculty, who will then report to the Faculty the condition of the inspected school. The Faculty will then in their discretion either accept the school or reject it. Acceptance is either for one, two, or three years, and each school is required to make an annual report to the Faculty.

OFFICIAL LIST OF ACCREDITED SCHOOLS.

I. For the Major Course, preparing for the Freshman Class:

ALMA	P. P. Bentley, Supt. and Principal.
ASHLAND	{ J. W. Crabtree, Superintendent. Mary R. Campbell, Principal.
AUBURN	{ Charles Fordyce, Superintendent. R. D. Overholt, Principal.
BEATRICE	{ C. G. Pearse, Superintendent. Ossian H. Brainerd, Principal.
BLOOMINGTON	J. H. O'Donoghue, Supt. and Principal.
COLUMBUS	{ J. M. Scott, Superintendent. Mrs. A. C. Ballou, Principal.
CRETE	W. H. Skinner, Supt. and Principal.
FREMONT	{ P. W. Grinsted, Superintendent. Miss Nettie Torrance, Principal.
GRAND ISLAND	{ Robert J. Barr, Superintendent. Miss E. E. Cole, Principal.
HASTINGS	{ J. B. Monlux, Superintendent. Jas. H. Wilkerson, Principal.
HOLDREGE	{ W. R. Hart, Superintendent. Hattie L. Barber, Principal.
KEARNEY	{ J. T. Morey, Superintendent. Miss M. I. Stewart, Principal.
*LINCOLN	{ H. S. Jones, Superintendent. L. L. H. Austin, Principal.
*NEBRASKA CITY	{ G. D. Ostrom, Superintendent. Miss Isabel E. Owens, Principal.
NORTH BEND	J. A. Dowden, Supt. and Principal.
*NORTH PLATTE	M. H. Lobdell, Supt. and Principal.
ODELL	A. A. Reed, Supt. and Principal.
ORD	J. K. Campbell, Supt. and Principal.
PLATTSMOUTH	{ F. C. McClelland, Superintendent. W. N. Halsey, Principal.
TECUMSEH	D. A. Cooper, Supt. and Principal.
ULYSSES	C. H. Aldrich, Supt. and Principal.
YORK	H. R. Corbett; Supt. and Principal.

Those marked with an asterisk (*) prepare for all the courses of the University.

II. For the Minor Course, preparing for the second year of the Latin School:

AURORA	J. M. Hussey, Principal.
FAIRMONT	J. S. Van Eaton, Principal.
FRIEND	D. G. Hopkins, Principal.
GIBBON	C. A. Fulmer, Principal.
HARVARD	C. W. Mills, Principal.
LOUP CITY	M. H. Carleton, Principal.
MCCOOK	Wm. Valentine, Principal.
NORTH LOUP	W. C. Cobb, Principal.
RED CLOUD	Miss F. A. Donahue, Principal.
SUTTON	Alexander Stephens, Principal.
WILBER	W. W. Boner, Principal.

BUILDINGS AND GROUNDS.

The principal buildings and appliances of the University are situated near the business centre of Lincoln. The Farm of the Agricultural Experiment Station is on the eastern border of the city, within easy reach by horse car or other conveyance.

UNIVERSITY HALL contains the Chancellor's office, Steward's office, Library, Chapel, the Society halls, and twenty lecture and recitation rooms.

NEBRASKA HALL contains the General Museum, and rooms for Botany, Zoology, Geology, Agriculture, Entomology, Horticulture, and Physics.

THE CHEMICAL LABORATORY is devoted to Chemistry, and contains the several laboratories and offices.

GRANT MEMORIAL HALL is devoted to military science and gymnastics.

THE BOILER HOUSE, recently constructed, contains five large steam boilers which supply heat to all the buildings on the campus.

THE EXPERIMENT STATION FARM includes 320 acres of rolling upland in a good state of cultivation. On it are a farm house, a large barn, and other buildings.

THE LIBRARIES.

The collections of books accessible to students are the General Library, the Department libraries, the State Library, the City Library, and the Library of the State Historical Society. They contain in the aggregate about 50,000 volumes.

I.—THE GENERAL LIBRARY.

The UNIVERSITY LIBRARY contains about 12,000 volumes. The General Reading room is supplied with the best American and Foreign magazines and periodicals. Both Library and Reading room are open from 8:30 A. M. until 12:30 P. M., and from 2 P. M. to 5 P. M. each day.

II.—DEPARTMENT LIBRARIES.

The BIOLOGICAL LIBRARY contains about 400 volumes of works on Agriculture, Zoology, Stock Breeding, etc.

The CHEMICAL REFERENCE LIBRARY of about 600 volumes is placed in the weighing room of the Laboratory and is open to students under certain restrictions, during working hours. It contains a full set of the following journals: *Berichte der Deutschen Chemischen Gesellschaft*; *Chemisches Centralblatt*; *Chemical News*; *Zeitschrift für Analytische Chemie*; *American Chemical Journal* and the *Journal of Analytical Chemistry*. Students have access to *Comptes Rendus*, *Journal of the (London) Chemical Society*, *Jahresbericht über die Fortschritte der Chemie*, and the *Analyst*. The library also contains the leading text books and other important Chemical publications.

The BOTANICAL LIBRARY consists of special works on systematic and structural botany, horticulture and forestry, and includes 800 volumes and a considerable number of pamphlets. It is supplied with full sets of *Annales des Sciences Naturelles*, *Pringsheims Jahrbücher für wissenschaftliche Botanik*, *Grevillea*, *Botanical Gazette*, *Journal of Mycology, Garden and Forest*, and current volumes of all of the more important Botanical periodicals.

The PHYSICAL LIBRARY contains about 400 bound volumes, together with a number of memoirs in pamphlet form. It includes complete sets of *Poggendorff's* and *Wiedemann's Annalen der Physik und Chemie*, and the *Beiblätter*. The more important physical journals are also kept on file, including the *Philosophical Magazine*, *Journal de Physique*, *Wiedemann's Annalen*, and the *Electrical Engineer*. Several other journals of reference are also accessible.

III.—OTHER LIBRARIES ACCESSIBLE TO STUDENTS.

Besides the General and Special Collections belonging to the University there are several other libraries in the city to which students have access. Of these the most important is THE STATE LIBRARY, located in the Capitol. This is one of the best law libraries in the country, and contains at present about 25,000 volumes. The collections of statutes, archives, colonial records and miscellaneous documents are of inestimable value to advanced students in institutional history and economics.

The excellent PUBLIC LIBRARY (of about 8,000 volumes) of the city of Lincoln is free to all. It contains many well-selected standard works in history and general literature.

Advanced students are also allowed to consult the collections of the STATE HISTORICAL SOCIETY, which are especially rich in sources of American colonial history.

THE MUSEUMS.

The Museums of the University contain material illustrative of natural history, agriculture and other departments of study. In some of these the collections are already of considerable size, while in others a beginning only has been made. They are so arranged as to render them accessible to students and visitors. As these Museums afford a safe repository for objects of value, it is hoped that frequent gifts will be made to the several collections.

NATURAL HISTORY.

I. The MINERALOGICAL COLLECTION includes most of the ordinary mineral species, fine crystals, both cut and uncut, for optical investigation, a series of crystalline rocks collected and named by Professor C. H. Hitchcock, a valuable series of agates and agatized woods, ores of the ordinary and precious metals of North America, and a fine collection of South American gold and silver ores, the latter presented by General Victor Vifquain, U. S. Consul at Colon.

II. The GEOLOGICAL COLLECTION includes building stones, concretions, geodes, drift-boulders, sea-shore and river boulders, clays, marls, peat, coal, petroleum, ores, sections, maps, and other illustrations of structural, dynamical, and economic geology.

III. The PALÆONTOLOGICAL COLLECTION includes series of fossils from nearly all the productive horizons, especially those repre-

sented in Nebraska. The dicotyledonous leaves of the Dakota group are well represented. A fine series of bryozoan corals, collected and named by E. O. Ulrich, has recently been acquired.

IV. The ZOOLOGICAL COLLECTION consists of alcoholic and stuffed specimens illustrative of all groups of the animal kingdom. Among the recent additions is a series of skeletons illustrative of the principal groups of vertebrates. There is, besides, ample material for dissection.

V. The ENTOMOLOGICAL COLLECTION, belonging to the Experiment Station, comprises thirty "display cases" arranged to show the economic relations of certain insects, together with a beginning of a general collection illustrating the insect fauna of the state. These, with the private collection of the Station Entomologist, include about 75,000 specimens, representing from 8,000 to 10,000 species.

VI. The UNIVERSITY HERBARIUM includes, in addition to a pretty full representation of the plants of the state, a number of valuable sets prepared by eminent specialists, e g. Thuemen (*Mycotheca Universalis*), Linhart (*Ungarns Pilze*), Ellis (*N. A. Fungi*), Areschoug (*Alg. Scand.*), Rabenhorst (*Alg. Sach. et Alg. Europ.*), Le Jolis (*Alg. Mar. Cherb.*), Massalongo (*Lich. Ital.*), Stenhammar & Fries (*Lich. Suec.*), Tuckerman (*Lich. Am. Bor.*), Gottsche & Rabenhorst (*Hepat. Europ.*), Austin (*Hepat. Am. Bor.*), Austin (*Musci Appl.*), Curtiss (*N. A. Plants*).

The HERBARIUM includes about 29,000 specimens, of which about 10,000 are fungi, 5,000 algæ, 1,500 lichens, 1,000 hepaticæ, 1,500 musci, 450 pteridophytes, 10,000 anthophytes.

AGRICULTURAL MUSEUM.

The AGRICULTURAL MUSEUM contains collections of grains, grasses, forage plants, woods, fibres, etc., etc., aggregating about 1,200 specimens.

CLASSICAL COLLECTION.

A beginning has been made of a collection of busts, reliefs, maps, engravings, etc., to illustrate ancient Greek and Roman history.

CHEMICAL COLLECTION.

A beginning has been made of an illustrative collection of Chemical material. It comprises, at present, the following: Chemical

Elements (63 specimens); Chemical Compounds (200); Fluorescent Substances (16); For Spectroscopic work (18); Alkaloids (84); Coal Tar Colors (70); Coal Tar Products (50); Dyed Specimens of Silks, etc., (350); Common Minerals (150); Tiles and Pottery (25); Models of Precious Stones (84); Models of Noted Diamonds (15); the Professor's private collection of Minerals (150); the Professor's private collection of Crystal Models (123).

ART COLLECTION.

In connection with the department of Art the beginning has been made of a collection of casts of statuary, architectural studies, geometrical solids, engravings, etc.

THE LABORATORIES.

In the Laboratories of the University opportunities are provided for the practical study of chemistry, physics, geology and mineralogy, zoology, entomology, botany and agriculture.

CHEMICAL LABORATORY.

The Chemical Laboratory was planned and built after a careful study of the newest and best-arranged laboratories in this country and Europe.

It is well equipped for work, the principal rooms being supplied with hoods, steam and sand baths, drying ovens and filtering pumps. The work tables are furnished with complete sets of reagents, gas, and running water. Three large rooms are devoted to work in general and analytical chemistry. Besides these there are two commodious lecture rooms; a room for research and other special work; a library and weighing room; Professors' rooms and rooms for assays, combustions, gas analysis, stores, etc. This affords excellent opportunities for a systematic training in the laboratory method of studying Chemistry.

Instruction is regularly given in general and analytical Chemistry, pure and applied. The Laboratory is open, each week day, except Saturday, throughout the college year, to all students of the University, and those, not students, who comply with the required conditions.

PHYSICAL LABORATORY.

The Physical Laboratory is located at present in Nebraska Hall on two floors, with engine and dynamo rooms in the new boiler

house. The Meteorological Station connected with the department is located in University Hall. The lecture room is well equipped with apparatus for class demonstrations and lantern projections. The general laboratory accommodates fifty students, and is provided with apparatus for the determination of most of the physical constants. The special laboratories for advanced work contain apparatus of the best European and American make. The rooms for work in Electricity and Magnetism are provided with piers, and the floors are laid on concrete.

The department has a reference library and study, and rooms for storage of apparatus. A well-equipped shop is also maintained and a skilled mechanic employed continually in constructing and repairing apparatus.

The laboratory equipment includes balances, pendulums, standard barometer and thermometer, cathetometer, dividing engine and micrometers, goniometer, spectrometer, refractometer, diffraction bench, prisms, vacuum tubes, heliostat calorimeters, Regnault's apparatus for various heat determinations, siren, standard forks, organ pipes, reading telescopes, resistance boxes by Elliott, Hartmann, and others; galvanometers and electro dynamometers of various forms and makes, giving a range of sensibility from one hundred-millionth of an ampere to five hundred amperes; electrometers by White, Edelman, and Carpentier; various forms of voltmeters, ammeters and bridges; four-horse power Otto gas engine, a two-ton electromagnet, dynamos, etc. The U. S. standards are placed in the care of the department.

Among the pieces which have recently been added to the equipment are several sets of resistance coils, including new postoffice pattern by Elliott, Cardew voltmeter, two Thomson galvanometers, Thomson composite balance, Thomson voltmeter reading to 12,000 volts, cradle dynamometer, 250-light dynamo, 25-light dynamo, air thermometer, volumometer, Becker balance, vapor calorimeter, thermometers, apparatus for volume expansion, Regnault's apparatus for the expansion of mercury, apparatus for linear expansion, apparatus for Boyle's Law, vertical screw micrometer, scale divider, selected diamonds, Coulomb's torsion balance, self-registering hygrometer and thermometer, by Richard; Leitz microscope and accessories; telescope with tripod, equatorial mounting, circles and accessory pieces, by Brashear, the 4-inch objective being of new Jena glass, after Hasting's correction; 4-inch Rowland concave grating spectroscope, with mountings complete, including Lindsay-Gill

micrometer, camera, etc., by Brashear; Fuess's universal polariscope, after Groth, with all accessories and goniometer attachment; Nörremberg's apparatus, crystal sections, rhombohedra, presses, etc., for studying double refraction by Fuess; Duboscq's projection lantern, with all accessories, including regulator, vertical projector, galvanometer, thermopile, Nichols, lenses, prisms, etc.; apparatus for studying fluorescence: Lippich half-shade polarizer, by Schmidt and Hænsch; large plates and prisms of Faraday glass by Brashear.

There has also been loaned the department by the U. S. Navy the complete outfit of apparatus used by Newcomb for measuring the velocity of light, for the purpose of carrying out certain investigations on the dispersion of light.

Several orders are now being filled by different makers for further equipment.

GEOLOGICAL LABORATORY.

The Geological Laboratory is furnished with ordinary and petrographical microscopes, polariscope with stauroscopic attachment, apparatus for cutting and grinding rock-sections, physiographic and geological maps, barometer and level for topographic work, tables, tools, reagents, gas and water, for determinative mineralogy.

PHYSIOLOGICAL LABORATORY.

The Physiological Laboratory is equipped with apparatus for the demonstration of the principal facts in comparative physiology as well as for original investigation in muscular and circulatory phenomena. Among the more important instruments are ten microscopes by Leitz, Minot's automatic microtome; Recording drum by Richard Freres; chronograph, electric signal, Marey's tambours, control fork, metronome, Weber's scheme, etc.

ENTOMOLOGICAL LABORATORY.

In connection with the work of the Experiment Station the Entomological Laboratory is maintained for investigation, and also for the benefit of advanced students, who are permitted to work with the Entomologist.

BOTANICAL LABORATORY

The Histological Laboratory is furnished with tables, cases, lockers, water, gas and other conveniences. It is supplied with thirty-two compound microscopes made by Beck, Leitz, and Bausch and Lomb, thirteen dissecting microscopes, scalpels, section cutters, forceps, glassware, staining fluids, reagents, etc. The Physiological

Room is in connection with the Conservatory, and is fitted up with apparatus for work in the experimental physiology of plants.

ZOOLOGICAL LABORATORY.

The Morphological Laboratory has been equipped for investigation in the lines of anatomy, histology, and embryology. Besides the ordinary apparatus, reagents, and glassware, it is provided with sixteen microscopes by Leitz and Zeiss; microtomes (Minot's Automatic, and Reichert's Thoma); camera lucidas after Zeiss and Abbe.

PATHOLOGICAL LABORATORY.

In connection with the Experiment Station this laboratory has been maintained for purposes of investigation. It is well equipped in microscopes, thermostats, culture apparatus, glassware, etc., for bacteriological work.

CIVIL ENGINEERING.

The equipment of this department consists of a Fauth Transit No. 6, with Saegmuller's Solar Adjustment, Heller and Brightly Transit, Wye Level, Hand Level, Plane Table, Vernier Compass and a Rolling Planimeter, made Corradi of Zurich; in addition, the usual minor accessories. The drawing room has the necessary equipment.

The Laboratory is well equipped for testing cement. It has a Rieble Machine with tools for testing cement in tension and compression to 2,000 pounds. Also water service, scales, sieves, thermometers, etc.

THE ARMORY.

The equipment of the Military Department consists of one hundred and twenty-five Springfield Cadet-Rifles with accoutrements; a battery of two 3-inch Field Rifles; sixteen commissioned officers' swords and belts; musical instruments and uniforms for military band; flags, etc.

The Armory is open for drill and practice at stated times during the week, and by law all male students in the college classes are required to drill six consecutive terms, unless excused by the Chancellor.

THE GYMNASIUM.

The Gymnasium has been opened to the young men and women of the University, under the supervision of a competent director. It

affords good facilities for regular and systematic exercise in various lines to all students who elect gymnasium work. At present those who enter the gymnasium pay for the wear and breakage of apparatus one dollar per year.

LITERARY AND OTHER SOCIETIES.

The students maintain three literary societies, viz.: The Palladian, The Union, and The Delian. These meet every Friday evening for literary and musical exercises. On Saturday evenings the young men of the societies conduct several debating clubs for practice in extemporaneous discussion and debate.

The "Scientific Club" meets at stated times for the reading and discussion of scientific papers

The "Classical Club" meets every third Saturday afternoon for lectures, papers, and discussions in classical philology.

The "Biological Journal Club" meets once a fortnight to discuss papers which have appeared in recent biological journals.

The "Weismann Club" meets once a week for an hour's reading of Weismann's *Essays on Heredity*.

The "Seminar of Historical and Political Science," designed to train graduates and advanced students in methods of investigation, meets once a fortnight.

MORAL, RELIGIOUS AND GENERAL CULTURE.

Religious exercises, consisting of Scripture reading, singing, and prayer, are held every morning in the University Chapel, and are attended by a majority of the students, although the attendance is voluntary.

The Young Men's Christian Association, and the Young Women's Christian Association hold regular meetings in room No. 7, of University Hall.

The churches of the city are open to all students and a cordial welcome is always extended to them.

The following church organizations are represented in the city: Baptist, Catholic, Christian, Congregational, Protestant Episcopal, Evangelical Lutheran, Free-will Baptist, German Catholic, German Congregational, German Lutheran, Swedish Lutheran, Hebrew, Methodist Episcopal, German Methodist, Swedish Methodist, Pres-

byterian, Evangelical Protestant, Reformed, Seventh Day Adventists, United Brethren, United Presbyterian, Universalist, Unitarian.

The Capital City furnishes in various ways many opportunities for culture of which the student may take advantage if he chooses. The Haydon Art Club, which has for its object the encouragement of art, meets regularly once a month in the University chapel, where it has hung a set of twenty-five fine etchings by Urger, Flaming, Urlaub, Schoenleber, Parmentier and others. The Club during the past year secured the exhibition in the city, of the "Century collection" of drawings, and granted special admission privileges to University students.

Musical concerts of a high order of excellence are given by local societies; and from time to time excellent dramatic entertainments are supplied by the managers of the Opera House.

The annual January meetings of the State Historical society, and the State Agricultural Society, held in the University chapel, and those of the State Horticultural society, and the State Bee Keepers' association in the Botanical Lecture room, with the Annual Corn Show and Fruit Exhibit in the Armory, present opportunities of great value to the student interested in these subjects.

FEES AND EXPENSES.

MATRICULATION FEE. Every Student, before entering any department of the University, is required by the law of the State to pay a Matriculation fee of five dollars, which entitles him to the privileges of permanent membership in the University.

TUITION. By law, the tuition in the established Colleges of the University is free to all residents of Nebraska.

DIPLOMA FEE. Upon graduation, each student pays a diploma fee of five dollars.

OTHER EXPENSES. These vary much, according to the individual habits of the student. An investigation, recently made, shows that some students get through the year on less than one hundred and seventy-five dollars, while others spend nearly three times that sum.

Board and lodging from.....	\$145 00	to	\$400 00
Books and laboratory expenses.....	15 00	to	25 00
Stationery.....	2 00	to	10 00
Other expenses, including Societies..	7 00	to	47 00

Total for the year.....\$169 00 to \$482 00

Board and lodging are obtained in private families at from \$2.50 to \$3.50 per week. In the student boarding clubs, of which there are several, the cost of board is about \$2.00 a week. Room-rent varies from fifty cents or less, to \$1.50 a week for each student.

The University maintains no dormitory or boarding hall, but the steward will give information in regard to rooms and board to all who apply at his office (room 6, University Hall).

MANUAL LABOR. While the University cannot undertake to furnish manual labor to many students, it is enabled to do so to a limited extent upon the farm and campus, and in the various buildings, at rates varying from fifteen to twenty-five cents per hour (dependent upon the quality of work). Many students find work in private families and in various occupations, by means of which they defray a portion of their expenses. A person of ability and energy, who is master of a trade or who can do first-class work can always find remunerative employment.

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ALUMNI ASSOCIATION OF THE UNIVERSITY.

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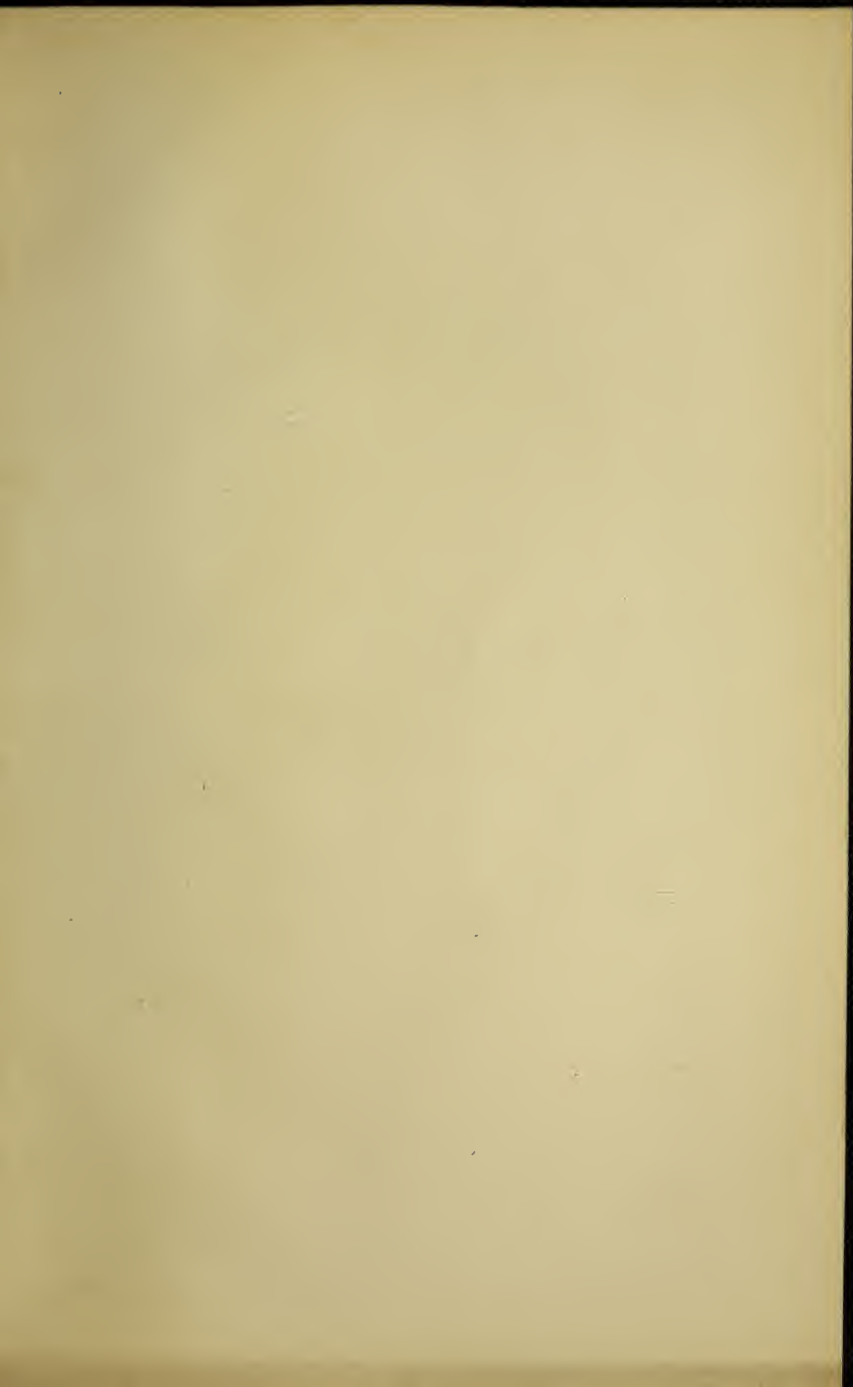
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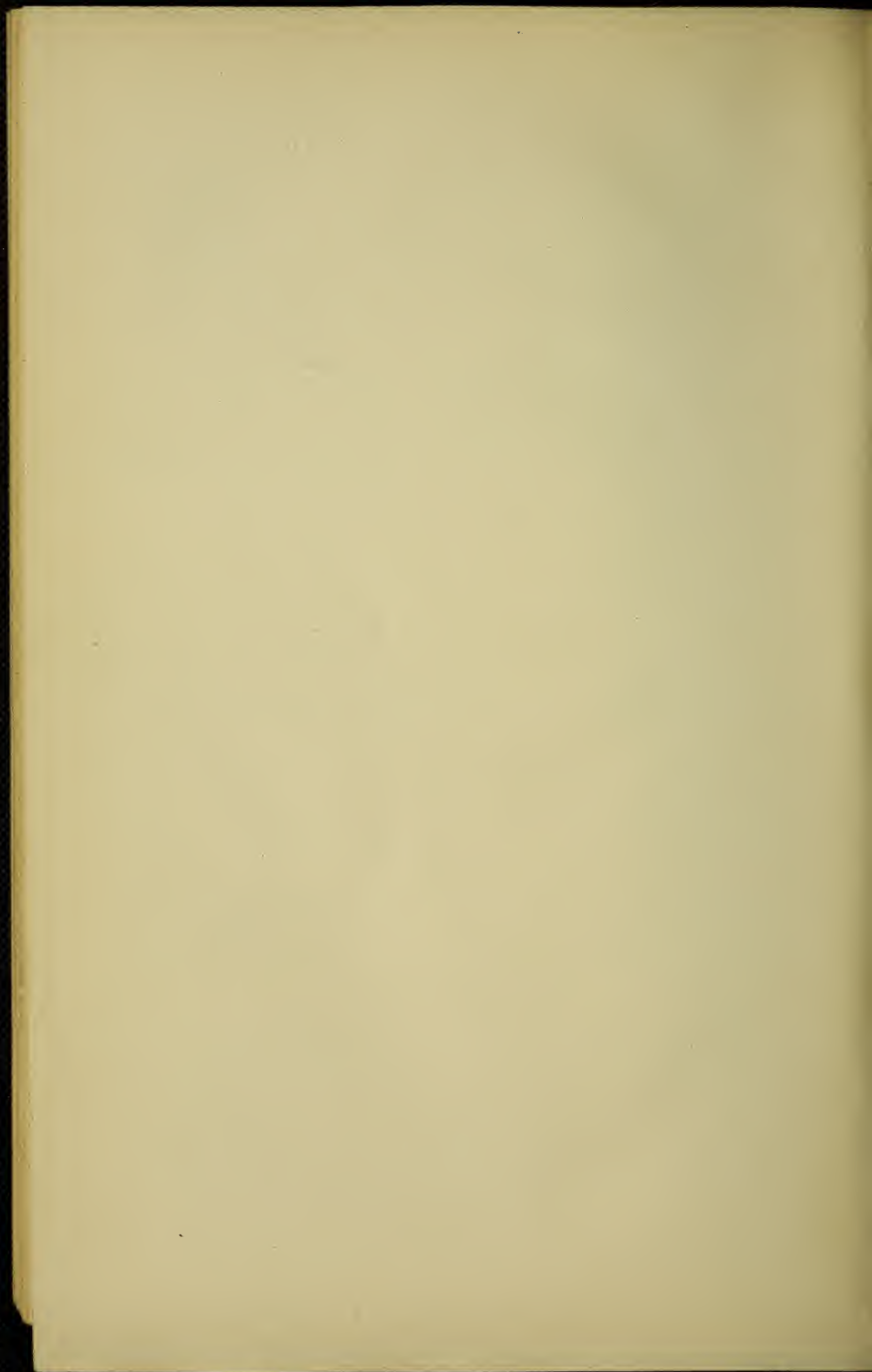
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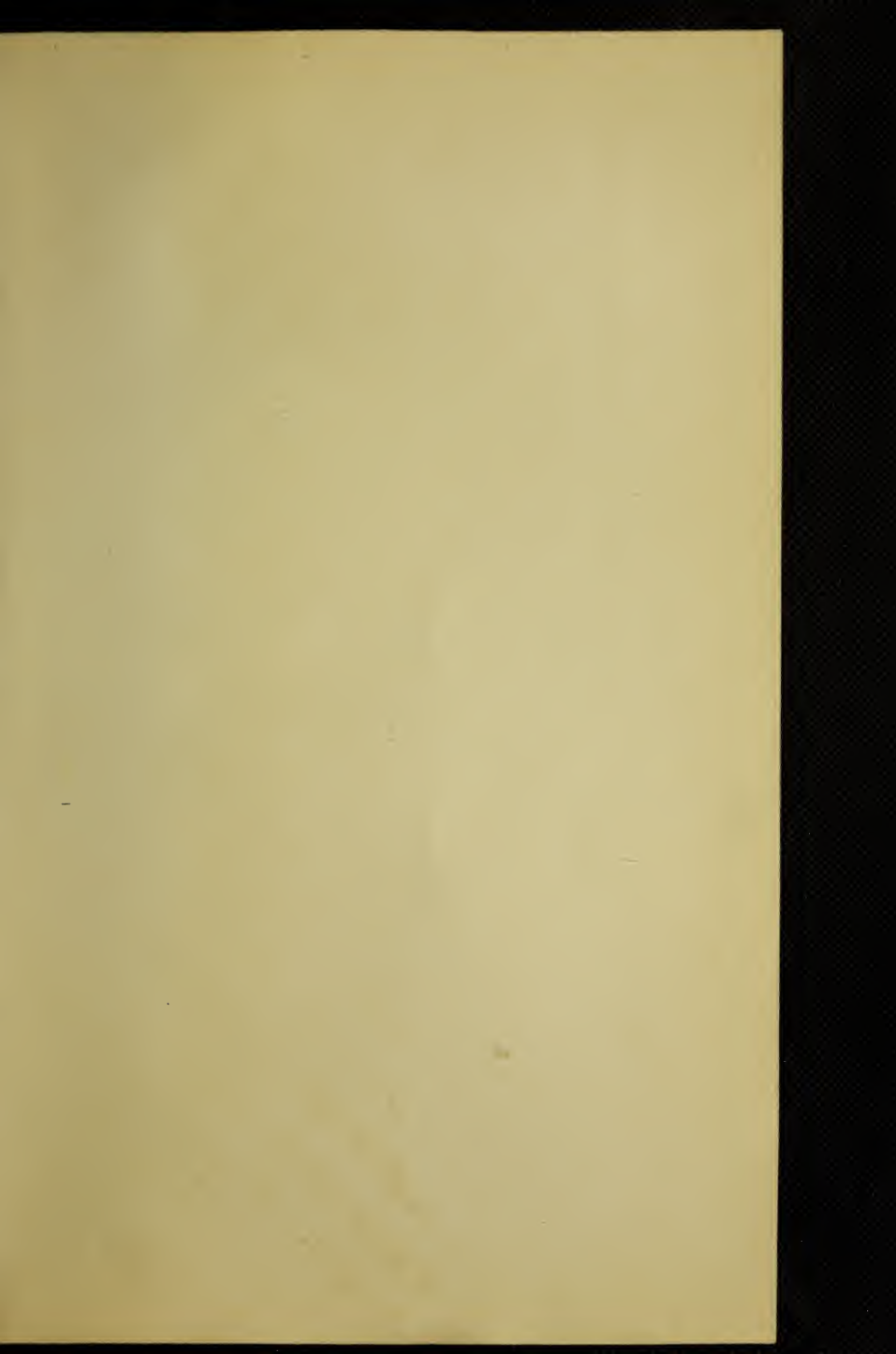
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